

ESTIMATE ESSENTIALS USER GUIDE



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CONTENTS

Introduction	20
Course Description	20
Course Objectives	20
How to Use this Manual	20
Lessons	20
Lesson Format	21
Call-Outs	21
Ongoing Use	21
LESSON 1 – ESTIMATING CORE CONCEPTS	23
1.1 Overview of the Estimating Process	24
Step 1 - Enter Project Details	25
Step 2 - Enter Proposal Deliverables	25
Step 3 - Calculate Direct & Indirect Project Cost	26
Step 4 - Add Markup, Contingency, & Fees	27
Step 5 - Distribute Cost + Markup to required Structure	27
1.2 Key Concepts and Terms	28
1.2.1 Job Folder	28
1.2.2 Library	29
1.2.3 Form	29
1.2.4 Cost Item	31
1.2.5 Pay Item	31
1.2.6 Resource	31
1.2.7 Resource Assembly	32
1.2.8 Cost Item Assembly	32
Lesson 1 Review	34
Lesson 1 Summary	34
LESSON 2 – NAVIGATION	35
2.1 General Navigation	35
Step by Step – Estimate preferences setup	35
2.2 First time access	36
Step by Step – Launch Estimate	36
Step by Step – Estimate subsequent use	40
2.3 Estimate resiliency	41

2.4 Backstage View	42
2.4.1 Archive / Restore	44
2.4.2 Settings	44
2.4.3 Prompt to Save	45
2.4.4 Decimal Precision	45
2.5 Load a Job	45
2.6 Common Navigation	47
2.6.1 Help Bubbles	48
2.6.2 Data Map	49
2.7 InEight Estimate Layout	50
2.7.1 Setup Tab Overview	50
2.7.2 Estimate Tab Overview	51
2.7.3 Quote Tab Overview	52
2.7.4 Price Tab Overview	53
2.7.5 System Tab Overview	54
2.7.6 Integrations Tab Overview	55
2.7.7 Library	55
2.7.8 Open Forms	56
Step by Step – Open Forms	56
2.8 System Settings Options	58
Step by Step – Decimal Precision	59
2.9 Columns	59
2.9.1 Move Columns	60
Step by Step – Move Columns	60
2.9.2 Sort and Filter Columns	62
Step by Step – Sort Columns	62
Step by Step – Filter Columns	62
2.9.2.1 Filter Editor Overview	64
Creating complex filters using the Filter Editor	64
Step by Step – Filter Editor	67
2.9.3 Group Columns	68
Step by Step – Group Columns	68
2.9.4 Saved Views	69
Step by Step – Create a Saved View	70
2.9.5 Subtotal Calculator	70
2.9.6 Register Running Totals	71
2.10 Find Feature	72
Step by Step – Find Feature	73
2.11 Keyboard Shortcuts	74

2.11.1 Navigating in a register	74
2.11.2 Navigating in a record	75
2.11.3 Menu and keystroke commands	76
2.11.4 Function keys in Estimate	76
Lesson 2 Review	77
Lesson 2 Summary	77
LESSON 3 – LIBRARY SETUP	79
3.1 Library Overview	80
3.1.1 Library Tabs	81
3.1.1.1 Setup Tab	81
3.1.1.2 Estimate Tab	83
3.1.1.3 System Tab	84
External Reports	85
3.1.1.4 Integrations	88
App Logs	88
3.2 Library Job Properties	89
3.3 Library Address Book	90
3.3.1 Pre-existing Estimate data	91
3.3.2 Estimate specific data	92
3.3.3 Address Book layouts	93
3.3.3.1 Vendors and Contacts	93
3.3.3.2 Vendors and Default Quotes	94
3.3.3.3 Contacts	95
3.3.4 View Vendors and Contacts in InEight Platform	96
3.3.5 Vendor and contact creation	96
3.3.6 Merge and Upload Contacts and Vendors into Platform	102
3.3.6.4 Disconnected Contacts and Vendors	102
Inactive Contacts and Vendors	103
Step by Step – Merge Estimate Vendors to Platform	105
Step by Step – Upload Estimate Vendors to Platform	106
Step by Step – Merge Contacts to Platform	107
Step by Step – Upload Contacts to Platform	109
Step by Step – Create Vendors and Contacts via Quote Record	111
3.4 Library Job Properties Pricing	119
3.4.1 Job Properties Overview	119
3.4.2 Balanced Price Options	120
3.4.2.1 Calculate Balanced Pay Item Prices using Cost Amount:	120
3.4.2.2 Calculate Balanced Pay Item Prices using Billing Amount:	121

3.4.2.3 Distribution of Unassigned Costs/Billing Amount by Individual Categories	122
3.4.2.4 Markup Options	123
3.4.2.5 Categorize Business Overhead as Indirect Cost	125
3.4.2.6 Calculate Proposal Recap Forecast Markup	126
3.5 Library Foundation Setup Data	129
3.6 Resources	130
3.6.1 Library Resources Register	131
Overview - Library Resource Rate Register	131
3.6.2 Labor Resources	133
3.6.3 Resource Rate Record	133
Overview - Resource Rate Record	134
Step by Step – Create a Labor Resource	136
3.6.4 Construction Equipment Resources	138
3.6.5 Rented Equipment Resources	138
Step by Step – Create a Rental Equipment Resource	139
3.6.6 Equipment Consumption Rates	139
3.6.7 Non-Hourly Rate Calculator	140
Step by Step – Non-Hourly Rate Calculator	140
3.6.8 Installed Materials, Installed Equipment & Supplies Resources	141
Step by Step – Create an Installed Material Resource	142
3.6.9 Unique Resources	143
3.7 Resource Assemblies	144
3.7.1 Library Resource Assembly Register	144
Overview - Library Resource Assembly Register	144
3.7.2 Resource Assembly Record	145
Overview - Resource Assembly Record	145
3.7.2.1 Productivity Rate Indicator in the CBS Register	146
Step by Step – Create a Resource Assembly	147
Exercise 3.1 – Create Resources & Resource Assemblies	148
3.8 Importing Resources	150
3.8.1 Open Resource Rate Register	151
Step by Step – Opening the Labor tab	151
3.8.1.1 Creating A Labor Saved View - Resource Rate Register	151
3.8.2 Setting up the excel file	152
3.8.2.2 Creating the resource	153
Step by Step – Creating the Resource	153
3.8.2.3 Resource Cost Details	155
Step by Step – Resource Cost Detail	155

3.8.3 Filter/Sort/Paste - Resource Cost Details Register	157
Step by Step – Filter Resource Cost Detail Register	158
3.8.4 Manual Set-Up of Scales 2 & 3 - Optional	159
3.8.4.4 Resource Rate Register	160
3.8.4.5 Resource Cost Details Register	160
Step by Step – Manual Setup of Scales	160
3.8.4.6 Non Labor Resource Setup	161
3.8.5 Creating A Materials Saved View - Resource Rate Register	161
3.8.6 Creating A Material Resource	162
Step by Step – Creating the Resource	162
3.8.7 Create A Material Saved View - Resource Cost Details Register	164
Step by Step – Material Saved View	164
3.9 Quantity Checking	165
Step by Step – Quantity Checking	166
3.10 Security in Estimate	168
3.10.1 Role based permissions	168
3.10.2 Security in Estimate	170
3.10.3 Granting permissions to access Jobs and Snapshots	171
3.10.3.1 Organizational Breakdown Structure	173
3.10.4 Granting permissions to destinations and commands	174
3.10.4.2 Access Control Report	179
Step by Step – Access Control Report	180
3.10.5 Granting permissions to the Estimate Library	182
3.10.6 Common roles used when securing an Estimate	183
Lesson 3 Review	185
Lesson 3 Summary	185
LESSON 4 – PROJECT SETUP	187
4.1 Job Creation	188
4.1.1 Create a Job from Scratch	189
4.1.2 Platform Project association to job	189
Create a new job from scratch	190
4.2 Project Creation	190
4.2.1 Considerations	191
4.3 Job Register Overview	191
4.3.1 Open the Job Register	191
4.4 Manage jobs from the Job Register	193
4.4.1 Load a job from the Job Register	193
4.4.2 Open a job's properties from the Job Register	194
4.4.3 Edit job details	195

4.4.4 Edit jobs in bulk	197
Edit Job Properties of Multiple Jobs	197
4.4.5 OBS filter tree	198
4.4.6 Data Version and Upgrade Required Columns	200
4.5 InEight Platform project association	201
4.5.1 Job register grouped by Platform project	203
4.5.2 Manage Multiple Estimate Versions in the Job Register	204
4.6 Job Properties	205
4.6.1 Overview Tab	205
4.6.2 Cover Sheet Tab	208
4.6.3 Cost Basis Tab	209
4.6.4 Shift Rate Calculator	210
Step by Step – Shift Rate Calculator	211
4.6.5 Import Filtered Resources	212
Step by Step – Import Filtered Resources	213
4.6.6 Fuel Cost Tab	214
Step by Step – Enter Fuel Costs	214
4.6.7 Job Folder Tags Tab	215
4.6.8 Schedule Tab	216
4.6.9 Other Job Properties Tabs	216
Exercise 4.1 – Define Job Properties	218
4.7 Pay Item Creation	222
4.7.1 Overview - Pay Item & Proposal Register	223
Step by Step – Create a Pay Item	223
4.7.2 Pay Item Prices by Category	224
4.7.3 Standard Proposal report	224
Exercise 4.2 – Create Pay Items	226
Lesson 4 Review	227
Lesson 4 Summary	227
LESSON 5 – DIRECT COSTS	229
5.1 Cost Breakdown Structures	230
5.1.1 Cost Item Terminology	231
5.1.2 Work Breakdown Structures	232
5.1.3 Locked vs. Unlocked Approach	233
5.1.4 Take-Off Quantities	235
Step by Step – Adjust take-off quantities	235
5.2 Cost Item Creation	236
5.2.1 Insert Subordinate Cost Item	236

Option 1	236
Option 2	237
5.2.2 Insert Cost Item	237
Option 1	237
Option 2	238
Step by Step – Create a subordinate cost item	239
5.2.3 Move Cost Items	239
Exercise 5.1 – Create cost items	241
5.3 Costs and Production	242
5.3.1 Cost Item Record	242
5.3.2 Cost Segments	243
5.3.3 Cost Sources	244
5.3.3.1 Plug Tab	245
5.3.3.2 Detail Tab	245
5.3.4 Plug Costs	246
Step by Step – Define a plugged cost	246
5.3.5 Detail Costs	247
Step by Step – Detail costs	248
5.3.5.3 Add Cost Detail	248
Step by Step – Add cost detail	249
5.3.5.4 Add Assembly	250
Step by Step – Define cost detail by adding an assembly	250
Exercise 5.2 – Define cost detail	251
5.4 Cost Item Details	253
5.4.1 Cost Item Setup	253
5.4.1.1 Cost Curves	254
Cash Flow	258
Cash Flow example	261
Period Quantities	263
Step by Step – Adjust shift arrangements	266
5.4.2 Notes	267
5.4.3 Man-Hour Factors	268
5.4.4 Unique Identifier	269
5.4.4.2 Highlight Unique (Delta) Toggle	271
5.4.5 Cost Drivers	272
5.4.6 Suspend Cost Items	273
Step by Step – Suspend a Cost Item	274
5.4.6.3 Editable Man-Hour Factors in Suspended Cost Items	275
5.4.6.4 Unsuspend a Cost Item	275

Step by Step – Unsuspend a Cost Item	275
5.4.6.5 Suspend Column	275
5.4.7 Adding Cost Adjustments	276
Exercise 5.3 – Manage cost item details	278
Lesson 5 Review	279
Lesson 5 Summary	279
LESSON 6 – INDIRECT COSTS	281
6.1 Indirect Costs Overview	282
6.1.1 Navigation to Indirect Costs	283
6.2 Default Indirect Cost Items	283
6.2.1 Independent Indirect Cost Items	283
6.2.1.1 Job Management & Equipment	283
Step by Step – Add job management & equipment costs	284
Step by Step – Add general expense costs	285
6.2.2 Dependent Indirect Cost Items	285
6.2.2.2 Default Dependent Cost Item Deletion	286
Step by Step – Delete existing default dependent cost items	287
6.2.2.3 Prime Bond	287
Step by Step – Define prime bond	287
Multiple bond rate dependent items	287
Deleting Bond Tables	288
6.2.2.4 Price % Add-On	288
Step by Step – Define a price % add-on	289
6.2.2.5 Direct Cost Add-On	290
Step by Step – Define a direct cost add-on	290
6.2.2.6 Repositioning Dependent Cost Items	292
6.3 User-Defined Indirect Cost Items	293
Step by Step – Add user-defined indirect cost items	294
6.4 Cost Allocation	295
6.4.1 Cost Allocation	296
6.4.2 View Filter Excludes Cost Item Allocation Details	297
6.4.3 Cost Allocation to By Unit Cost	297
6.5 Dependent cost item allocation	297
6.5.1 Turning Off Cost Allocation	298
6.5.2 Break cost allocation link	298
Breaking a cost allocation link	299
6.5.3 Pay item assignment for allocation distribution	299
Exercise 6.1 – Define Indirect Costs	301

Lesson 6 Review	303
Lesson 6 Summary	303
LESSON 8 – QUOTE MANAGEMENT	305
8.1 Quote Management Overview	306
8.1.1 Quote Management Workflow	306
8.1.2 Quotes and Quote Groups	306
8.1.2.1 Resource Level Quote Groups	307
8.1.2.2 CBS Level Quote Groups	307
8.2 Requests for Quote	308
8.2.1 Request for Quote (RFQ) Register Overview	308
8.2.2 Request for Quote (RFQ) Record	309
8.2.3 Create an RFQ	310
8.2.3.1 Line Items	311
8.2.3.2 Terms & Conditions	312
8.2.3.3 Vendor Companies	312
8.2.4 Attachments	313
8.2.5 Setup	314
8.2.6 Publish an RFQ	315
Step by Step – Create and publish an RFQ	315
8.2.7 RFQ Email Draft	317
8.3 Quotes	318
8.3.1 Sample Received Quote Scope Sheet	319
8.3.2 Quote Register Overview	320
8.3.3 Quote Record Overview	321
8.3.4 Header Block	322
8.3.4.1 Quote records	322
8.3.5 Price Block	323
8.3.6 Quote Record Tabs	323
8.3.6.2 Resources & Cost Items	323
Cost item tags and user defined fields	324
8.3.7 Data Blocks	324
8.3.8 Data Block Tabs	327
8.3.8.3 Special Terms & Conditions	327
8.3.8.4 Qualifications	328
8.3.8.5 Packages	329
Step by Step – Create a multi-packaged quote	331
8.3.8.6 Taxes	336
8.3.8.7 Seller's Profile	337
8.3.8.8 Setup	337

8.3.8.9 Minority	338
8.3.9 Create a Quote from RFQ	339
Step by Step – Create a quote from RFQ	339
8.3.10 Enter Quote Details	340
Step by Step – Enter quote details	340
Step by Step – Create a multi-packaged quote	341
8.3.11 Use Unit Price or Extended Price on Quote Record Item	345
8.3.12 Duplicating an Existing Quote	346
Step by Step – Duplicate an existing quote	346
Exercise 8.1 – Quote Management	348
8.4 Quote Comparison & Award	349
8.4.1 Quote Comparison & Award Overview	349
8.4.2 Edit Mode	350
8.4.3 Substitute Values	350
8.4.4 Display Ignored Quotes	353
8.4.5 Export Quote Comparison and Award to Microsoft Excel	355
8.4.6 Additional Quote Comparison and Award functions	356
8.4.7 Configure Totals	357
8.4.8 Adding Notes to Quote Comparison & Award	358
Step by Step – Add the Notes section to Quote Comparison & Award form	359
8.4.9 All Quote Groups Layout	361
8.4.10 Compare and Award Quotes	362
8.4.10.1 Open Status	364
8.4.10.2 Award Status	364
8.4.10.3 Review	365
Step by Step – Compare and award quotes	365
8.4.11 Package Entire Quote	366
8.4.12 Incomplete Quotes	367
8.5 Scope Items	368
8.5.1 Scope Item Setup	371
Step by Step – Set up scope items	372
Step by Step – Set up quotes for scope items	373
8.5.2 Scope Item Creation and Award	374
Step by Step – Manage and award scope items	374
8.6 Quote Item Adjustment	375
Step by Step – Quote item adjustment	376
Lesson 8 Review	377
Lesson 8 Summary	377

LESSON 9 – FINALIZE THE ESTIMATE	379
9.1 Job Markup (Profit)	380
9.1.1 Target Price	380
9.1.2 Price Breakdown Structure	382
9.1.3 Markup vs. Margin	383
9.1.4 Define Profit	384
9.1.4.1 Profit as a Percentage of Target Price	385
Step by Step – Add profit as a percentage of target price	385
9.1.4.2 Profit Through Direct Cost Markup Record	386
Step by Step – Modify the direct cost markup record	386
9.2 Cost Estimate Audit/Review	386
9.2.1 Price Breakdown Structure Tabs	387
9.2.1.1 Markup Analysis	387
9.2.1.2 Cost Source	387
9.2.1.3 Resource Utilization	388
9.2.1.4 Subcontract Status	388
9.2.1.5 Vendor Status	388
9.3 Spread Target Price Over Pay Items	389
9.3.1 Current Price vs. Target Price	389
9.3.2 Proposal Recap	390
9.3.3 Spread the Target Price	390
9.3.4 Define Pricing for Pay Items Manually	390
Step by Step – Define pricing manually	391
9.3.5 Use AutoPrice to Balance and Hit the Target Total	391
Step by Step – Use AutoPrice to balance and hit the target total	391
9.3.6 Use AutoPrice to Unbalance and Hit the Target Total	392
Step by Step – Unbalance hit target total	392
9.4 Selective Pay Item Markup	393
Exercise 9.1 – Manually Price Pay Items	396
9.5 Bid Adjustments	397
9.5.1 Lock Price	397
Step by Step – Lock Price	397
Step by Step – Make Last Minute Bid Adjustments	397
9.5.2 Suspend Pay Items	400
Lesson 9 Review	402
Lesson 9 Summary	402

STEP-BY-STEP PROCEDURES

Step by Step – Estimate preferences setup	35
Step by Step – Launch Estimate	36
Step by Step – Estimate subsequent use	40
Step by Step – Open Forms	56
Step by Step – Decimal Precision	59
Step by Step – Move Columns	60
Step by Step – Sort Columns	62
Step by Step – Filter Columns	62
Step by Step – Filter Editor	67
Step by Step – Group Columns	68
Step by Step – Create a Saved View	70
Step by Step – Find Feature	73
Step by Step – Merge Estimate Vendors to Platform	105
Step by Step – Upload Estimate Vendors to Platform	106
Step by Step – Merge Contacts to Platform	107
Step by Step – Upload Contacts to Platform	109
Step by Step – Create Vendors and Contacts via Quote Record	111
Step by Step – Create a Labor Resource	136
Step by Step – Create a Rental Equipment Resource	139
Step by Step – Non-Hourly Rate Calculator	140
Step by Step – Create an Installed Material Resource	142
Step by Step – Create a Resource Assembly	147
Step by Step – Opening the Labor tab	151
Step by Step – Creating the Resource	153
Step by Step – Resource Cost Detail	155
Step by Step – Filter Resource Cost Detail Register	158
Step by Step – Manual Setup of Scales	160
Step by Step – Creating the Resource	162

Step by Step – Material Saved View	164
Step by Step – Quantity Checking	166
Step by Step – Access Control Report	180
Create a new job from scratch	190
Edit Job Properties of Multiple Jobs	197
Step by Step – Shift Rate Calculator	211
Step by Step – Import Filtered Resources	213
Step by Step – Enter Fuel Costs	214
Step by Step – Create a Pay Item	223
Step by Step – Adjust take-off quantities	235
Step by Step – Create a subordinate cost item	239
Step by Step – Define a plugged cost	246
Step by Step – Detail costs	248
Step by Step – Add cost detail	249
Step by Step – Define cost detail by adding an assembly	250
Step by Step – Adjust shift arrangements	266
Step by Step – Suspend a Cost Item	274
Step by Step – Unsuspend a Cost Item	275
Step by Step – Add job management & equipment costs	284
Step by Step – Add general expense costs	285
Step by Step – Delete existing default dependent cost items	287
Step by Step – Define prime bond	287
Step by Step – Define a price % add-on	289
Step by Step – Define a direct cost add-on	290
Step by Step – Add user-defined indirect cost items	294
Breaking a cost allocation link	299
Step by Step – Create and publish an RFQ	315
Step by Step – Create a multi-packaged quote	331
Step by Step – Create a quote from RFQ	339
Step by Step – Enter quote details	340

Step by Step – Create a multi-packaged quote	341
Step by Step – Duplicate an existing quote	346
Step by Step – Add the Notes section to Quote Comparison & Award form	359
Step by Step – Compare and award quotes	365
Step by Step – Set up scope items	372
Step by Step – Set up quotes for scope items	373
Step by Step – Manage and award scope items	374
Step by Step – Quote item adjustment	376
Step by Step – Add profit as a percentage of target price	385
Step by Step – Modify the direct cost markup record	386
Step by Step – Define pricing manually	391
Step by Step – Use AutoPrice to balance and hit the target total	391
Step by Step – Unbalance hit target total	392
Step by Step – Lock Price	397
Step by Step – Make Last Minute Bid Adjustments	397

EXERCISES

- Exercise 3.1 – Create Resources & Resource Assemblies 148
- Exercise 4.1 – Define Job Properties 218
- Exercise 4.2 – Create Pay Items 226
- Exercise 5.1 – Create cost items 241
- Exercise 5.2 – Define cost detail 251
- Exercise 5.3 – Manage cost item details 278
- Exercise 6.1 – Define Indirect Costs 301
- Exercise 8.1 – Quote Management 348
- Exercise 9.1 – Manually Price Pay Items 396

INTRODUCTION

COURSE DESCRIPTION

This course covers the concepts and functionality you need to know in order to use the InEight Estimate software successfully. As a result, you will be able to build cost estimates and bid proposals with precision and efficiency.

COURSE OBJECTIVES

As a result of this course, you will be able to use the InEight Estimate software to:

- Construct and modify cost estimates
- Calculate profit and finalize bid proposals

HOW TO USE THIS MANUAL

This training manual serves as the working guide during the *E101 Essentials of Project Modeling and Estimating* instructor-led course. The first seven lessons of this document follow a natural progression of putting an estimate together, from set up of a project to finalization of a bid. The remaining lessons cover additional functionality that will help you build and review your project estimate more effectively.

LESSONS

The following lessons are covered in this course:

Course Lessons	
Lesson	Topic
Lesson 1	Estimating Core Concepts
Lesson 2	General Navigation
Lesson 3	Library Setup
Lesson 4	Project Setup

Course Lessons

Lesson 5 Estimate Direct Costs

Lesson 6 Estimate Indirect Costs

Lesson 7 Finalize the Estimate

LESSON FORMAT

This manual is designed to be a “hands on” learning guide. As such, each lesson is organized into sections:

Section	Description
Objectives	Specify what you will learn in each lesson.
Topics	Organize the subject matter, with explanations of key concepts and terms.
Step by Steps	Walk you through the “mechanics” of how to perform specific functions in the software. For each step by step, you will use the Training Job that comes pre-loaded in the InEight Estimate Estimating software.
Exercises	Allow you to practice and reinforce what you learn. For each exercise, you will use the Training Job that comes pre-loaded in the InEight Estimate Estimating software.
Review	Asks you questions to check what you have learned within each lesson.

CALL-OUTS

Throughout the document, you will also find important call-out banners.

TIP

Tips are for important notes and information you want to remember.

NOTE

Notes are for critical information you need to know.

ONGOING USE

This manual is also designed to be a comprehensive reference guide you can use outside of the classroom and revisit as needed. Each lesson is compartmentalized so that you can refer back to each lesson as needed.

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LESSON 1 – ESTIMATING CORE CONCEPTS

LESSON DURATION: 30 MINUTES

LESSON OBJECTIVES

After completing this lesson, you will be able to:

- Explain the estimating process in InEight Estimate
- Explain key terms and concepts

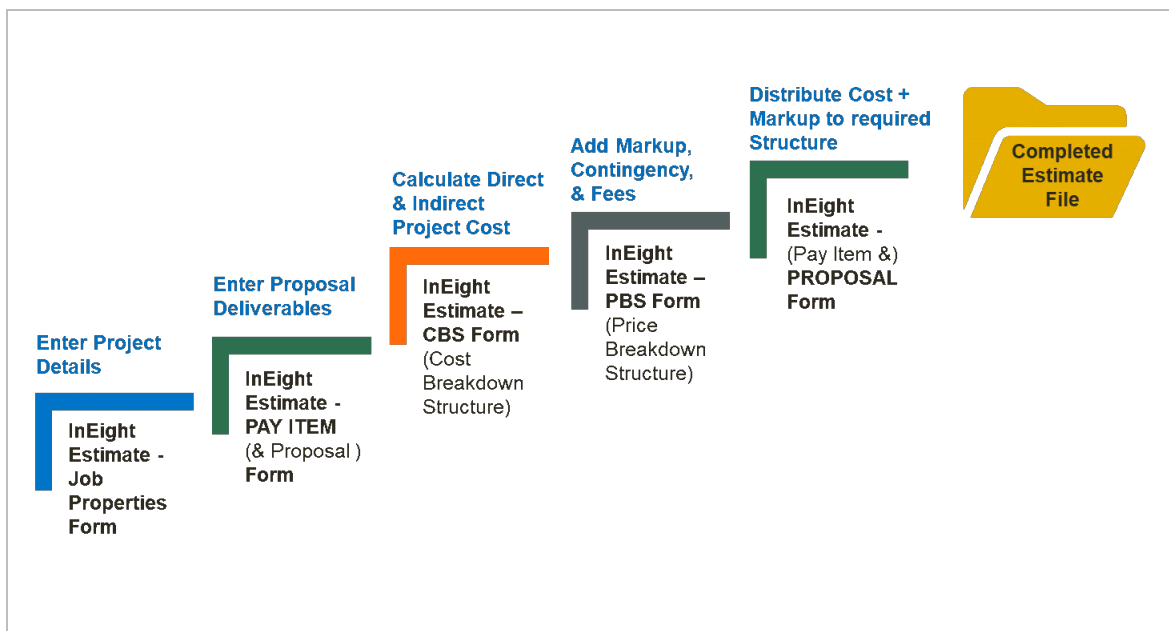
LESSON TOPICS

1.1 OVERVIEW OF THE ESTIMATING PROCESS

The estimating process typically progresses through the following five steps. If you are an Owner you may not take part in all five of these steps, but may instead do a few in an iterative process as you progress through stage gate approval phases.

1. Enter project details.
2. Enter proposal deliverables.
3. Calculate Direct & Indirect Project Cost.
4. Add Markup, Contingency, & Fees.
5. Distribute Cost + Markup to required structure.

The below table displays how these five steps correspond with specific forms in InEight Estimate:



Note the forms used in InEight Estimate to accomplish the steps above:

- Job Properties
- Pay Item & Proposal
- CBS (Cost Breakdown Structure)
- PBS (Price Breakdown Structure)

The rest of this section walks you through an overview of each step in the process and its corresponding form in InEight Estimate.

STEP 1 - ENTER PROJECT DETAILS

When you decide to estimate a new project, the first step is to create a new estimate and set it up with the general project details. In InEight Estimate, you'll enter basic information and project specific settings in the Job Properties form from the Setup tab.

The Job Properties form is organized into tabs to help you keep track of all the basic information and settings for the project. It begins with the Overview tab. You will move from left to right entering your project specific information and adjusting any settings that differ from the default.

The screenshot shows the 'Job Properties' form in the 'Setup' tab of InEight Estimate. The 'Overview' tab is selected, and the 'Cost Breakdown Structure (CBS) Register' is visible. The form is divided into several sections: Identification, Proposal, and a bottom status bar. The Identification section includes fields for Location, City, County, Country, State, Latitude, Longitude, Type, Engineer, Owner, Architect, Contract Duration, Time Measure, Forecast Start, and Forecast Finish. The Proposal section includes fields for Bid Date, Bid Time, Estimator, Bid Location, Owners Estimate, Opening Type, Proposal Type, Plan Holders, Liquidated Damages, and RFQ Contact. The bottom status bar shows 'As-Entered Currency', 'As-Entered Units', 'v19.1HD_19_1_QA2016', 'Training Job', and 'Accrued Costs OFF'.

STEP 2 - ENTER PROPOSAL DELIVERABLES

For Contractors who are submitting a proposal to a client, this step enables you to enter the client provided deliverables clients are requesting pricing for. Most Owners will skip this step unless there is a need to track various funding sources or prepare for internal or external company billing.

In InEight Estimate this list of items is recorded in the Pay Item & Proposal Register on the Setup tab.

- Notice that your pay items have no pricing when first entered because you have yet to figure out costs. You will come back to this form later in the process to distribute your costs and markup.

Pay Item & Proposal Register									
Proposal Recap - Training Job									
	Current	Target	Forecast	Variance					
Price	\$6,565,758.20	\$6,569,758.28	\$6,557,223.80	\$1,280	ADD				
Markup	\$894,118.24	\$894,118.62	\$1,941,384.54	\$57,266.52	CUT				
Margin%	24.88	14.89	15.83	\$66,239.81					

Item Recap - 200 SITEWORK & ROADWAY									
Description									
		Unit Price (Balance)	Total Price (Balance)	Unit Price (Current)	Total Price (Current)				
Price			\$1,164,016		\$1,462,700				
Distribution			\$649,496.57		\$888,140.07				
Markup			\$476,396.13		\$717,152.33				
Profit (Markup records)			\$313,781.00		\$552,337.20				

Drag columns here to group

Position	Qty	Unit	Description	Pay Quantity	Forecast (FQ)	Unit of Measure	Currency	Unit Price (Current)	Total Price (Current)	Unit Markup (Balance)	Lock Quantity	Total Balance	Lock Price	Unit Distribution	Total Distribution	Unit Price (Current)
→ 1.1	200	1	200 SITEWORK & ROADWAY				U.S. Dollar		\$3,402,700.00			\$476,396.13			\$649,496.57	
→ 1.1.1	8410100	1	Mobilization	1.00	1.00	Lump Sum	U.S. Dollar	\$795,600.00	\$795,600.00	\$2,948.15		\$2,948.15			\$6,553.48	\$6,553.48
→ 1.2	2010102	1	Cleaning & Grubbing	30.00	30.00	Cum. Acre	U.S. Dollar	\$59,000.00	\$59,000.00	\$9,762.36		\$9,762.36			\$1,973.16	\$19,731.56
→ 1.3	2020183	1	Underseal/Excavation	50,000.00	50,000.00	Cubic Yard	U.S. Dollar	\$5.50	\$2,750.00	\$1.11		\$55,694.42			\$1.65	\$852,417.49
→ 1.4	3030912	1	Aggregate Base	40,000.00	40,000.00	Ton	U.S. Dollar	\$26.50	\$1,060,000.00	\$3.02		\$120,771.08			\$4.14	\$165,732.22
→ 1.5	3030263	1	Asphalt Concrete Hot Mix Type A	38,000.00	38,000.00	Ton	U.S. Dollar	\$97.45	\$3,651,330.00	\$7.61		\$289,125.32			\$9.87	\$3,659,481.12
→ 1.6	4000000	1	Asphalt & Concrete	35,000.00	35,000.00	Ton	U.S. Dollar	\$78.00	\$2,730,000.00	\$14.36		\$142,689.40			\$134.96	\$1,814,811.80
→ 2.1	4130010464	1	36 inch RCP Culvert Class III	1,000.00	1,000.00	Linear Feet	U.S. Dollar	\$97.45	\$97,450.00	\$14.36		\$1,740,757.32			\$19.96	\$3,950,358.37
→ 2.2	80000220	1	30 inch PVC Force Main (DR21)	12,000.00	12,000.00	Linear Feet	U.S. Dollar	\$29.50	\$354,000.00	\$4.62		\$55,406.82			\$6.25	\$1,495,037.37

STEP 3 - CALCULATE DIRECT & INDIRECT PROJECT COST

Once you've set up your estimate, you will perform take-offs and cost analysis to determine the total estimated cost to complete the entire scope of work.

The **Cost Breakdown Structure (CBS) Register** is the main form where you will do your cost estimating.

- It is the hierarchy of work activities that make up the estimate
- Each row in the CBS represents a work activity and is called a cost item

Training Job - Estimate									
File	Setup	Estimate	Quote	Price	Execution	System	Integrations	Actions	More Actions
Print	New	Copy	Split		Cost Item	Assembly			
Preview	Delete	Paste	Toggle Suspended		Subordinate Cost Item	Subordinate Assembly			
Export to Excel	Cut	Fill Down	Indent		Dependent Cost Item				
Print	Edit				Insert				
Job Properties		Cost Breakdown Structure (CBS) Register							
Drag columns here to group									
Find: [Search For...] Saved views: Previous View									
CBS Position Code	Description	Optional Code	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Allocated		
→	JOB		20.00	Mile	\$293,095.93	\$5,861,918.63			
+	Prime Bond	PRIME BOND	1.00	Lump Sum	\$47,069.88	\$47,069.88			
+	Price % Add-On	PRICE % ADD-ON	1.00	Lump Sum	\$294,928.95	\$294,928.95			
+	Job Financing	FINANCE EXPENSE	1.00	Lump Sum	\$0.00	\$0.00			
+	Indirect Cost Escalation	INDIRECT COST ESCAL...	1.00	Lump Sum	\$0.00	\$0.00			
+	Direct Cost Escalation	DIRECT COST ESCALAT...	1.00	Lump Sum	\$18,837.35	\$18,837.35			
+	Indirect Cost Add-On	INDIRECT COST ADD-ON	1.00	Lump Sum	\$0.00	\$0.00			
+	Job Management & Equipment	JOB MANAGEMENT & E...	1.00	Lump Sum	\$157,096.28	\$157,096.28			
+	General Expense	GENERAL EXPENSE	1.00	Lump Sum	\$4,200.00	\$4,200.00			
+	Direct Cost Add-On	DIRECT COST ADD-ON	1.00	Lump Sum	\$104,301.10	\$104,301.10			
+ 1	Mobilization	641 0100	1.00	Lump Sum	\$11,909.51	\$11,909.51			
+ 2	Clearing & Grubbing	201 0102	10.00	Acre	\$3,918.50	\$39,184.97			
- 3	Unclassified Excavation	202 0183	50,000.00	Cubic Yard	\$4.68	\$233,915.81			
+ 3.1	Excavation	3.1	50,000.00	Cubic Yard	\$3.00	\$149,922.88			
+ 3.2	Embankment	3.2	50,000.00	Cubic Yard	\$1.68	\$83,992.94			
- 4	Aggregate Base	303 5912	45,000.00	Ton	\$15.40	\$692,928.99			
+ 4.1	Furnish & Haul Base Material	4.1	45,000.00	Ton	\$11.54	\$519,513.30			
+ 4.2	Finegrade Subgrade	4.2	400,000.00	Square Yard	\$0.19	\$75,848.36			
	Total Aggregate Base	4.2	45,000.00	Ton	\$2.17	\$97,667.22			
	106					\$5,861,918.63			

STEP 4 - ADD MARKUP, CONTINGENCY, & FEES

Once you have estimated all project costs, you may need to add markup, contingency or other fees and define the job's profit in the Price Breakdown Structure form.

Description	Assigned	Unassigned	Total	% of Target
▼ Price Breakdown Structure				
▼ Target Price	\$5,252,19...	\$645,755.99	\$5,897,950.68	100.00
▼ Markup	\$0.00	\$315,692.95	\$315,692.95	5.35
▼ Target Profit		\$0.00	\$0.00	0.00
Indirect Cost Markup		\$0.00	\$0.00	0.00
Direct Cost Markup		\$0.00	\$0.00	0.00
▼ Business Overhead	\$0.00	\$315,692.95	\$315,692.95	5.35
<input type="checkbox"/> Price % Add-On	\$0.00	\$265,407.78	\$265,407.78	4.50
<input type="checkbox"/> Job Financing	\$0.00	\$33,105.26	\$33,105.26	0.56
<input type="checkbox"/> Indirect Cost Escala...	\$0.00	\$2,131.11	\$2,131.11	0.04
<input type="checkbox"/> Direct Cost Escalation	\$0.00	\$15,048.80	\$15,048.80	0.26
<input type="checkbox"/> Business Overhead ...	\$0.00	\$0.00	\$0.00	0.00
▼ Total Cost	\$5,252,19...	\$330,063.05	\$5,582,257.73	94.65
▼ Indirect Cost	\$0.00	\$329,063.05	\$329,063.05	5.58
▼ Job Overhead	\$0.00	\$329,063.05	\$329,063.05	5.58
<input type="checkbox"/> Prime Bond	\$0.00	\$43,789.75	\$43,789.75	0.74
<input type="checkbox"/> Indirect Cost A...	\$0.00	\$5,888.67	\$5,888.67	0.10
<input type="checkbox"/> Direct Cost Add...	\$0.00	\$104,088.34	\$104,088.34	1.76
<input type="checkbox"/> Job Overhead I...	\$0.00	\$175,296.28	\$175,296.28	2.97
▼ Direct Cost	\$5,252,19...	\$1,000.00	\$5,253,194.68	89.07
<input type="checkbox"/> Direct Cost Items	\$5,252,19...	\$1,000.00	\$5,253,194.68	89.07

STEP 5 - DISTRIBUTE COST + MARKUP TO REQUIRED STRUCTURE

You now have a target price or total estimated value that you can spread to your required project deliverables, back in the Pay Item & Proposal form. InEight Estimate has tools within this form to help automatically distribute your cost, overhead and all markups to the listed items.

Pay Item & Proposal Register									
Proposal Recap - Training Job					Item Recap - 641 0100 Mobilization				
	Current	Target	Forecast	Variance		Balanced Unit	Current Unit		
Price:	\$6,455,450.00	\$6,553,976.75	\$6,462,850.00	\$98,526.75	ADD	Price:	\$18,300.00	\$386,800.00	
Profit:	\$544,294.64	\$642,821.40	\$604,568.97	\$38,252.43	ADD	Profit:	\$2,049.63	\$370,501.39	
Margin%:	8.43	9.81	9.35	\$32,502.50	ADD	Total Cost:	\$16,298.61	\$16,298.61	
						Business Overhead:	\$840.31		
						Job Overhead:	\$3,546.52		
						Unassigned Direct Cost:	\$2.26		
						Assigned Direct Cost:	\$11,909.51		

Drag columns here to group									
Find: <input type="text" value="Search For..."/> Saved views: <input type="text" value="Standard View"/>									
Pay Item Number	Description	Pay Quantity	Forecast (T/O) Quantity	Unit of Measure	Currency	Unit Price (current)	Total Price (current)	Unit Price (balanced)	Total Price (balanced)
+ 641 0100	Mobilization	1.00	1.00	Lump Sum	U.S. Dollar	\$386,800.00	\$386,800.00	\$18,300.00	\$18,300.00
+ 201 0102	Clearing & Grubbing	10.00	10.00	Acre	U.S. Dollar	\$6,120.00	\$61,200.00	\$5,867.33	\$58,673.33
+ 202 0183	Unclassified Excavation	50,000.00	50,000.00	Cubic Yard	U.S. Dollar	\$8.50	\$425,000.00	\$6.31	\$315,500.00
+ 303 5912	Aggregate Base	40,000.00	40,000.00	Linear Feet	U.S. Dollar	\$22.00	\$880,000.00	\$19.47	\$778,800.00
+ 303 4263	Asphalt Concrete Hot Mix Type A	38,000.00	38,000.00	Linear Feet	U.S. Dollar	\$35.00	\$1,330,000.00	\$52.28	\$1,986,640.00
+ 413(B) 0464	36 Inch RCP Culvert Class III	1,000.00	1,000.00	Each	U.S. Dollar	\$100.00	\$100,000.00	\$87.19	\$87,190.00
+ 800 0220	10 Inch PVC Force Main (SDR21)	12,000.00	12,000.00	Linear Feet	U.S. Dollar	\$28.00	\$336,000.00	\$29.82	\$357,840.00
+ 800 0330	24 Inch PVC Gravity Sewer (SDR35)	3,000.00	3,000.00	Linear Feet	U.S. Dollar	\$64.00	\$192,000.00	\$64.13	\$192,390.00
+ 800 0400	4 Foot Diameter Manhole	16.00	16.00	Each	U.S. Dollar	\$4,500.00	\$72,000.00	\$4,579.64	\$73,274.24
							\$6,455,450.00		\$6,553,976.75

1.2 KEY CONCEPTS AND TERMS

To help you get started in InEight Estimate, you should know a few key terms:

- Job Folder
- Library
- Form
- Cost Item
- Pay Item
- Resource
- Assembly

1.2.1 JOB FOLDER

Job folders hold all the information for an individual project estimate. It is possible to import master data into a job folder, but when you work in a job folder it is independent, meaning any activity performed in that folder will not affect any other jobs and will not affect the library.

TIP

When moving back and forth between jobs, make sure to always double-check that you are in the right job.

1.2.2 LIBRARY

The Library is a storehouse for master data, such as:

- Labor, equipment, and material unit cost rates
- Standard account codes
- Units of measure

When you create a new job from scratch, default data and settings copy from the Library into your new job folder, except for the resource rates. Multiple list of resource rates can be maintained in the library so you must select which rates to populate a new estimate with. Four tag fields are available to filter the resource rates you bring into an estimate from the master library. For example, you may select a subset of your labor rates based on the geographical location of the project.

1.2.3 FORM

Any screen you open in InEight Estimate is considered a Form. There are three types of forms: Standard, Register, and Record forms.

Standard Forms resemble typical data entry forms with fields available to fill in key project information. They also may contain radio buttons or checkboxes to define settings for the job.

The screenshot shows the 'Job Properties' form in InEight Estimate. The form is organized into tabs at the top: Overview, Security, Cover Sheet, Cost Basis, Minority Setup, Fuel Cost, Job Tracking, Job Folder Tags, Competitors, Pricing, Schedule, Cash Flow, and Equipment. The 'Overview' tab is active. The form contains several sections: 'Standard Shift Arrangements' with input fields for 'Work Hours per Shift', 'Pay Hours per Shift', 'Shifts per Day', and 'Days per Week'; 'Standard Wage Rate Composite' with 'Scale' fields and a 'Shift' dropdown; 'Rules' with checkboxes for 'Lock Cost Items to Pay Items', 'Pay Item Unit Price Precision', 'Activate PBS Changes Log', 'Activate Quantity Checking', and 'Maintain CBS Structure at Level'; and 'Standard Rates' with a 'Sales Tax Rate' field. Annotations with red boxes and labels identify key UI elements: 'Entry Fields' points to the shift arrangement input fields; 'Checkboxes' points to the 'Lock Cost Items to Pay Items' checkbox; 'Radio buttons' points to the 'Change UM / Man-Hour' and 'Change Days' radio buttons; and 'Tabs' points to the tabbed interface at the top.

TIP

InEight Estimate uses tabs to group and organize entry fields and settings in a logical way, so that the information is easy to access.

Register Forms have a grid format of rows and columns, giving it a spreadsheet look and feel. Register forms allow you to see information for multiple items at once. The Cost Breakdown Structure (CBS) Register is an example of a register form.

Cost Breakdown Structure (CBS) Register

Drag columns here to group Find: [Search For...] Saved views: Standard View

CBS Position Code	Description	Optional Code	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Allocated
+ 1	Mobilization	641 0100	1.00	Lump Sum	\$11,909.51	\$11,909.51	<input type="checkbox"/>
+ 2	Clearing & Grubbing	201 0102	10.00	Acre	\$3,918.50	\$39,184.97	<input type="checkbox"/>
▣ 3	Unclassified Excavation	202 0183	50,000.00	Cubic Yard	\$4.54	\$226,856.16	<input type="checkbox"/>
+ 3.1	Excavation	3.1	50,000.00	Cubic Yard	\$2.86	\$142,863.22	<input type="checkbox"/>
+ 3.2	Embankment	3.2	50,000.00	Cubic Yard	\$1.68	\$83,992.94	<input type="checkbox"/>
▣ 4	Aggregate Base	303	45,000.00	Ton	\$15.40	\$692,928.99	<input type="checkbox"/>
+ 4.1	Furnish & Haul Base Material	4.1	45,000.00	Ton	\$11.54	\$519,513.30	<input type="checkbox"/>
+ 4.2	Finegrade Subgrade	4.2	45,000.00	Square Yard	\$0.19	\$75,848.36	<input type="checkbox"/>
▣ 4.3	Install Aggregate Base	4.3	45,000.00	Ton	\$2.17	\$97,567.33	<input type="checkbox"/>
+ 4.3.1	Place Aggregate Base	4.3.1	45,000.00	Ton	\$1.63	\$73,460.92	<input type="checkbox"/>
+ 4.3.2	Blue Top Aggregate Base	4.3.2	400,000.00	Square Yard	\$0.06	\$24,106.42	<input type="checkbox"/>
▣ 5	Asphalt Concrete Hot Mix Type A	303 4263	35,000.00	Ton	\$42.62	\$1,491,580.59	<input type="checkbox"/>
+ 5.1	Furnish & Haul Hot Mix	5.1	35,000.00	Ton	\$39.27	\$1,374,562.54	<input type="checkbox"/>
+ 5.2	Install Hot Mix Type A	5.2	35,000.00	Ton	\$3.34	\$117,018.05	<input type="checkbox"/>
▣ 6	36 Inch RCP Culvert Class III	413(B) 0464	1,024.00	Linear Feet	\$67.54	\$69,159.49	<input type="checkbox"/>
+ 6.1	Furnish RCP Materials	6.1	1,024.00	Linear Feet	\$33.48	\$34,286.70	<input type="checkbox"/>
+ 6.2	Excavate RCP Trench	6.2	1,858.56	Cubic Yard	\$4.51	\$8,379.59	<input type="checkbox"/>
+ 6.3	Install RCP Pipe	6.3	1,024.00	Linear Feet	\$11.74	\$12,017.60	<input type="checkbox"/>

View multiple items at once

In a register form, you can open a **Record** for individual items you want to drill into.

TIP

The Tab key is the best way to move among fields in InEight Estimate (instead of the Enter key).

The below figure displays a Cost Item Record accessed by double clicking on that item on the Cost Breakdown Structure (CBS) Register.

Cost Breakdown Structure (CBS) Register **Cost Item Record**

CBS Code: Optional Code: Description: Forecast (T/O) Qty: Unit of Measure:

4 303 5912 AggregateBase 45,000.00 Ton

4.1 4.1 Furnish & Haul Base Material 45,000.00 Ton

PI Assignment: PI Line Number: PI Description: Cost Segment:

303 5912 40 AggregateBase Direct Cost

Cgst Item Summary Detail : \$11.54 Plug : \$0.00

Drag columns here to group Find: [Search For...] Saved views: Previous View

Row Number	Code	Resource Assembly	Description	Quantity (Less Waste)	Waste % Add-on	Qua
+	1	LT1	Teamster			
→ +	2	ETDT	Dump Truck			
+	3	MBR	Aggregate Base Rock	45,500.00	5.00	

Record focuses on 1 item

1.2.4 COST ITEM

Cost items are the individual cost-related activities that make up the project. Cost items are organized into a hierarchy in the Cost Breakdown Structure (CBS) Register. Each row in the CBS is considered a cost item.

CBS Position Code	Description	Optional Code	Forecast (T/O) Quantity	Unit of Measure	Unit Cost
+ 1	Mobilization	641 0100	1.00	Lump Sum	\$11,909.51
+ 2	Clearing & Grubbing	201 0102	10.00	Acre	\$3,918.50
▣ 3	Unclassified Excavation	202 0183	50,000.00	Cubic Yard	\$4.68
+ 3.1	Excavation	3.1	50,000.00	Cubic Yard	\$3.00
+ 3.2	Embankment	3.2	50,000.00	Cubic Yard	\$1.68
▣ 4	Aggregate Base	303 5912	45,000.00	Ton	\$15.40
+ 4.1	Furnish & Haul Base Material	4.1	45,000.00	Ton	\$11.54
+ 4.2	Finegrade Subgrade	4.2	400,000.00	Square Yard	\$0.19
▣ 4.3	Install Aggregate Base	4.3	45,000.00	Ton	\$2.17
+ 4.3.1	Place Aggregate Base	4.3.1	45,000.00	Ton	\$1.63
+ 4.3.2	Blue Top Aggregate Base	4.3.2	400,000.00	Square Yard	\$0.06

1.2.5 PAY ITEM

Pay items typically represent the owner required deliverables a contractor must submit pricing for. Pay items are used to distribute the cost calculated in the Cost Breakdown Structure, with all markup, including any fees or contingencies calculated in the Price Breakdown Structure. This allows the total estimate value to be distributed to a structure that is different than the CBS. Pay Items are predominantly used by contractors to prepare a bid sheet. Owners may use pay items to identify funding sources or for various reporting needs.

Position Code	Pay Item Number	Description	Pay Quantity	Forecast (T/O) Quantity	Unit of Measure	Currency	Unit Price (current)	Total Price (current)
→ ▣ 1	200	SITEWORK & ROADWAY				U.S. Dollar		\$3,402,700.00
+ 1.1	641 0100	Mobilization	1.00	1.00	Lump Sum	U.S. Dollar	\$395,600.00	\$395,600.00
+ 1.2	201 0102	Clearing & Grubbing	10.00	10.00	Acre	U.S. Dollar	\$5,900.00	\$59,000.00
+ 1.3	202 0183	Unclassified Excavation	50,000.00	50,000.00	Cubic Yard	U.S. Dollar	\$5.50	\$275,000.00
+ 1.4	303 5912	Aggregate Base	40,000.00	45,000.00	Ton	U.S. Dollar	\$26.50	\$1,060,000.00
+ 1.5	303 4263	Asphalt Concrete Hot Mix Type A	38,000.00	35,000.00	Ton	U.S. Dollar	\$42.45	\$1,613,100.00
▣ 2	400	WATER & SEWER				U.S. Dollar		\$718,550.00
+ 2.1	413(B) 0464	36 Inch RCP Culvert Class III	1,000.00	1,024.00	Linear Feet	U.S. Dollar	\$97.45	\$97,450.00
+ 2.2	800 0220	10 Inch PVC Force Main (SDR21)	12,000.00	12,000.00	Linear Feet	U.S. Dollar	\$29.50	\$354,000.00

1.2.6 RESOURCE

Resources are the building blocks of a detailed cost estimate.

Resources are the people, equipment, material, and supplies needed to complete the project. Resources are employed to cost items to develop an estimate, and are organized into seven categories or types:

1. Labor
2. Construction Equipment
3. Rented Construction Equipment
4. Installed Equipment
5. Installed Materials
6. Supplies
7. Unique

1.2.7 RESOURCE ASSEMBLY

A **Resource Assembly** is a group of resources that are often used together. For example, for civil work, you may group together an operator foreman, operator, and laborer, along with a loader and excavator. When estimating, you can employ this assembly which includes all of the pre-selected resources.

Resource Assembly Register													
Drag columns here to group													
Code	Description	Resource File Description	Quantity	Unit of Measure	Unit Cost	Total Cost	Currency	Organizational Category	Geographic Area				
- CCONC	Concrete Crew	Standard Assembly File	1.00	Hour	\$375.03	\$375.03	U.S. Dollar	Concrete					
→	Row Number	Resource Code	Description	Quantity	Unit of Measure	Unit Cost	Currency	Cost Driver	Resource File Description	Organizational Category	Geographic Area	Wage Zone	
	1	LC2	Carpenter Journeyman	2.00	Each	\$28.92	U.S. Dollar	CI Dura...	Standard Labor Rate File	Carpenter	Southwest	Wage Zon...	
	2	LF2	Finisher	1.00	Each	\$28.07	U.S. Dollar	CI Dura...	Standard Labor Rate File	Finisher - Conc...	Southwest	Wage Zon...	
	3	LIW1	Iron Worker	1.00	Each	\$35.55	U.S. Dollar	CI Dura...	Standard Labor Rate File	Iron Worker	Southwest	Wage Zon...	
	4	LL2	Laborer	1.00	Each	\$26.37	U.S. Dollar	CI Dura...	Standard Labor Rate File	Laborer	Southwest	Wage Zon...	
	5	ECRHC	Hydraulic Crane 25 Ton	1.00	Each	\$117.60	U.S. Dollar	CI Dura...	Standard Equipment Rate...	Crane			
	6	LC1	Carpenter Apprentice	1.00	Each	\$27.48	U.S. Dollar	CI Dura...	Standard Labor Rate File	Carpenter	Southwest	Wage Zon...	
	7	LO2	Operator Class 2	1.00	Each	\$28.07	U.S. Dollar	CI Dura...	Standard Labor Rate File	Operator	Southwest	Wage Zon...	
	8	ETFT	Flatbed Truck	1.00	Each	\$22.60	U.S. Dollar	CI Dura...	Standard Equipment Rate...	Truck			
	9	LC3	Carpenter Foreman	1.00	Each	\$31.47	U.S. Dollar	CI Dura...	Standard Labor Rate File	Carpenter	Southwest	Wage Zon...	
+ CGRADE	Grading Crew	Standard Assembly File	1.00	Hour	\$234.73	\$234.73	U.S. Dollar	Earthwork					
+ CMAINT	Equipment Maintenance	Standard Assembly File	1.00	Each	\$73.60	\$73.60	U.S. Dollar	Mechanic					
+ CPAVE	Paving Crew	Standard Assembly File	1.00	Hour	\$476.24	\$476.24	U.S. Dollar	Asphalt					

1.2.8 COST ITEM ASSEMBLY

A **Cost Item Assembly** is a predefined group of cost items that has cost based on estimator inputs to a set of questions. Cost item assemblies provide parameter-driven estimating and can also refer to reference tables. They allow companies to create intelligent construction systems to automatically estimate various scopes of work, based upon a user providing specification and dimension variables.

Cost Item Assembly Register ⓘ										
Drag columns here to group										
	Code ⓘ	Description	Assembly File Description	Default Quantity	Default Unit of Measure	Default Unit Cost	Default Total Cost	Default Currency	Organizational Category	Geographic Area
	RW01	Standard Retaining Wall Assembly	Standard Cost It...	20.00	Cubic Yard	\$424.67	\$8,493.38	U.S. Dollar	Concrete	
	TEST	TEST		1.00	Each	\$0.00	\$0.00	U.S. Dollar		
	TEST - DRS	Test Cost Item Assembly - Ductbank	Standard Cost It...	1.00	Each	\$0.00	\$0.00	U.S. Dollar	Concrete	Northeast
	TEST DS	Test Cost Item Assembly - Ductbank	Standard Cost It...	1.00	Each	\$0.00	\$0.00	U.S. Dollar	Excavator	Southwest
✎										

LESSON 1 REVIEW

1. Which InEight Estimate form is used to enter basic information about the job as well as define our cost basis?
 - a. Pay Item & Proposal
 - b. Job Properties
 - c. Library
 - d. Job Folder

2. All default data and settings copy from the Library into your new job folder *except*:
 - a. Labor rates
 - b. Equipment rates
 - c. Material rates
 - d. All of the above

3. These are considered the “building blocks” of the job – you employ them to cost items to develop your estimate.
 - a. Assemblies
 - b. Pay Items
 - c. Resources
 - d. Forms

LESSON 1 SUMMARY

As a result of this lesson, you can:

- Explain the estimating process in InEight Estimate
- Explain key terms and concepts

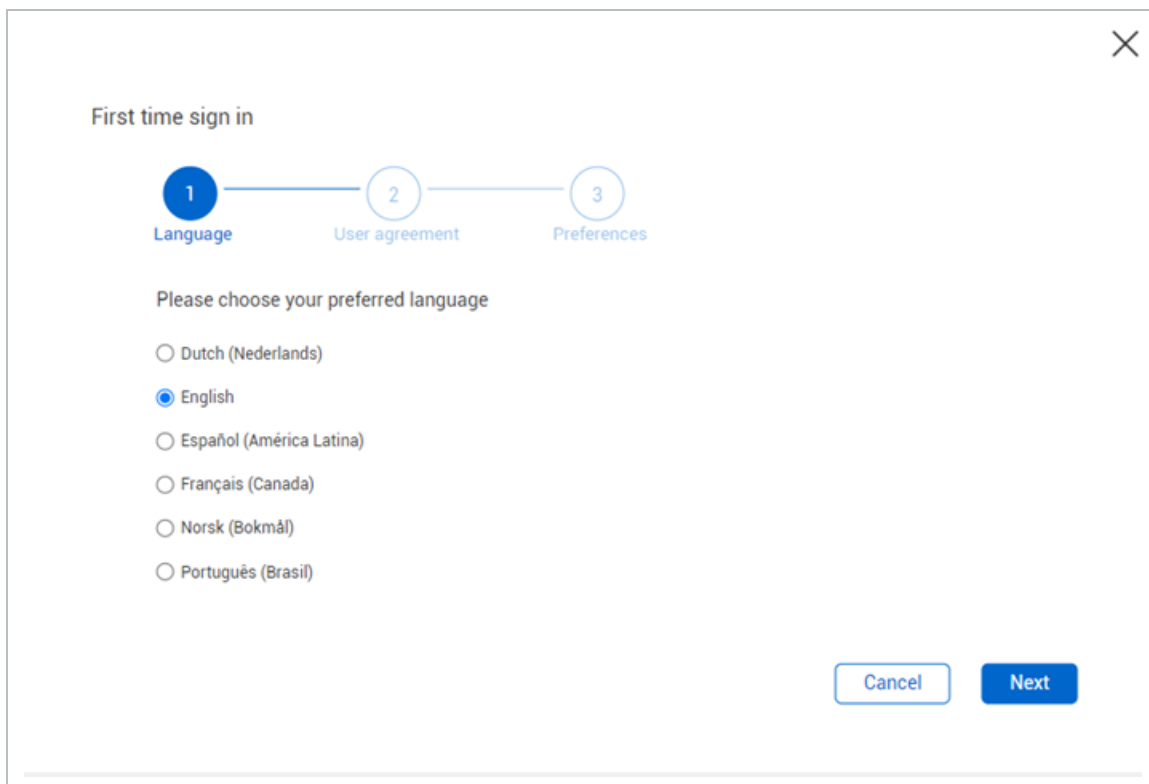
LESSON 2 – NAVIGATION

2.1 GENERAL NAVIGATION

As a new user to the InEight, the First-time sign in dialog box opens when you first sign in, and presents questions about your working environment in the Project Suite environment. Preferences are set for language, date, and number formats and the User Agreement, which you must accept before you begin. The First-time sign in dialog boxes only show for the initial sign-in to any of the InEight products.

STEP BY STEP – ESTIMATE PREFERENCES SETUP

1. Select your **preferred language**, and then click **Next**.



The image shows a 'First time sign in' dialog box. At the top, it says 'First time sign in' with a close button (X) in the top right corner. Below this is a progress indicator with three steps: 1. Language (highlighted with a blue circle), 2. User agreement, and 3. Preferences. The main content area is titled 'Please choose your preferred language' and lists six options with radio buttons: Dutch (Nederlands), English (selected with a blue dot), Español (América Latina), Français (Canada), Norsk (Bokmål), and Português (Brasil). At the bottom right, there are two buttons: 'Cancel' and 'Next'.

2. Scroll to the bottom of the user agreement, and then select the **check box** for the terms and conditions and privacy policy. **Click Next**.

TIP

Make sure you have scrolled to the end of the user agreement

3. Select a **date format** and **number format**, and then click **Next**.

RELEVANT LINKS

System settings options

Archive and restore jobs

Video - Navigating tabs within Estimate

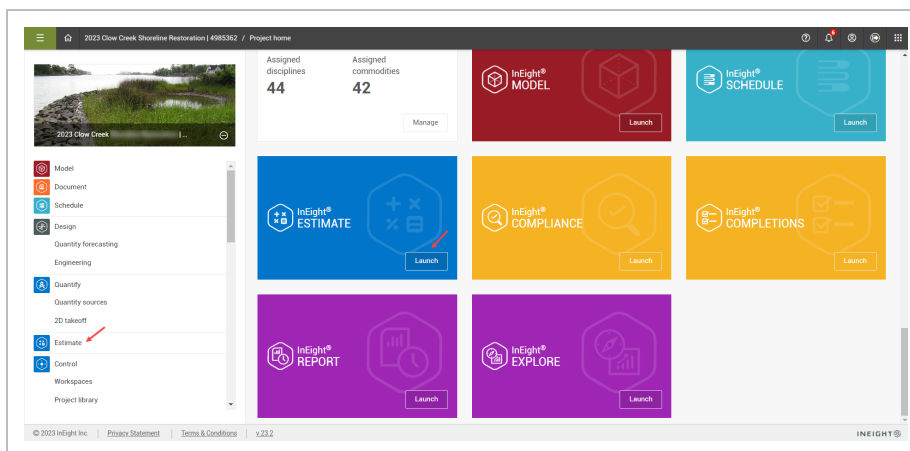
Video - Backstage view

2.2 FIRST TIME ACCESS

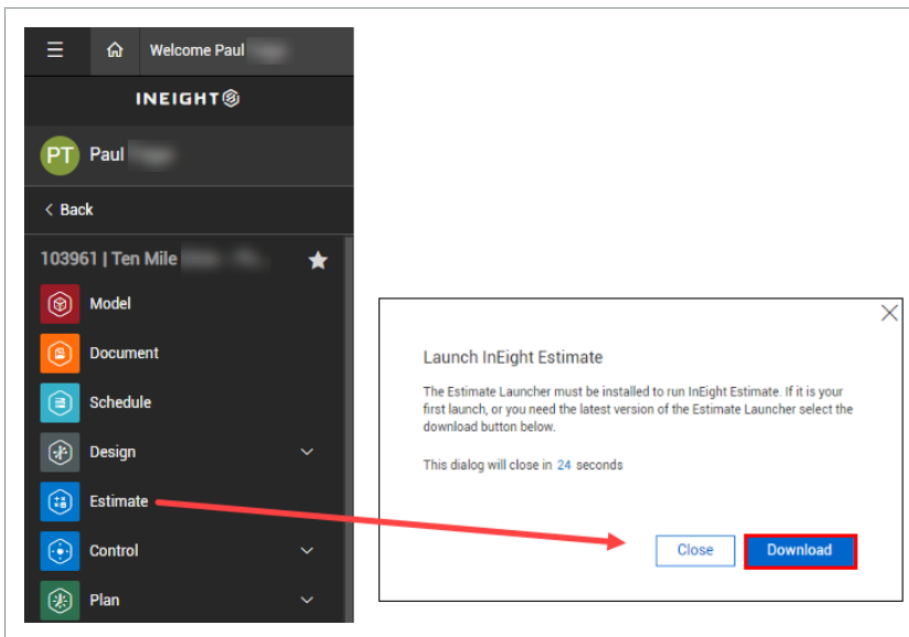
Platform's primary function lets you connect and share data between all Eight applications involved in managing a project. This allows project management workflows to pass between jobsite, field office, and front office seamlessly in a consistent and standardized user interface.

STEP BY STEP – LAUNCH ESTIMATE

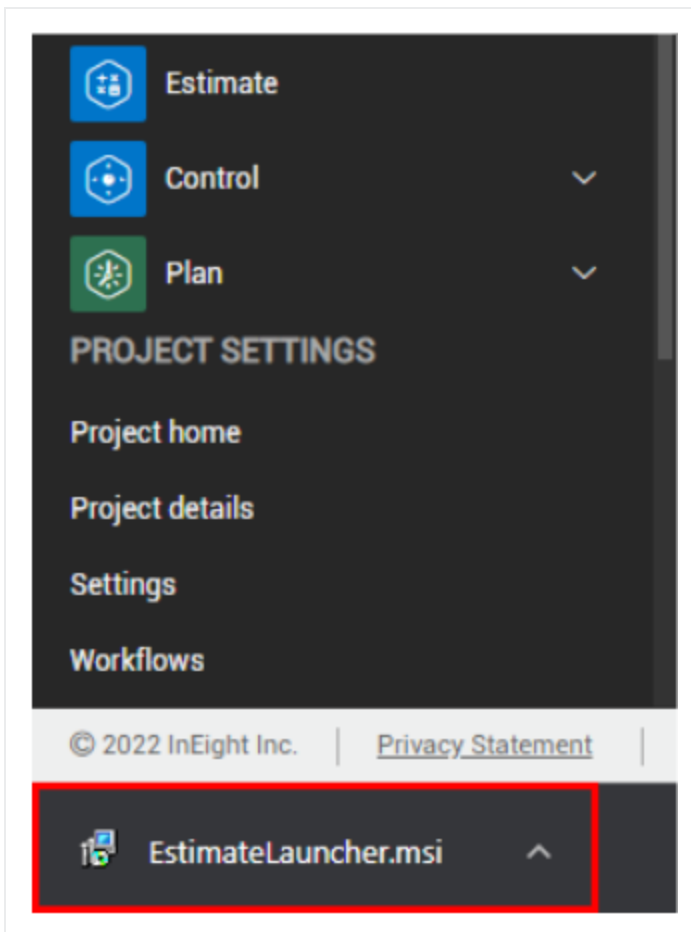
1. After selecting a project from the home page, you can access Estimate from the Main menu in Platform by selecting **Estimate**, or by clicking **Launch** on the **Estimate** tile.



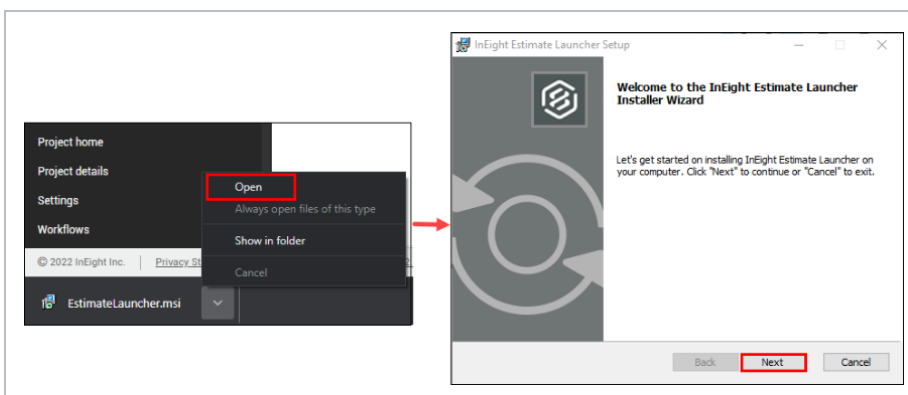
- When you select Estimate from the home page for the first time, you must click **Download** to access the Estimate Launcher file.



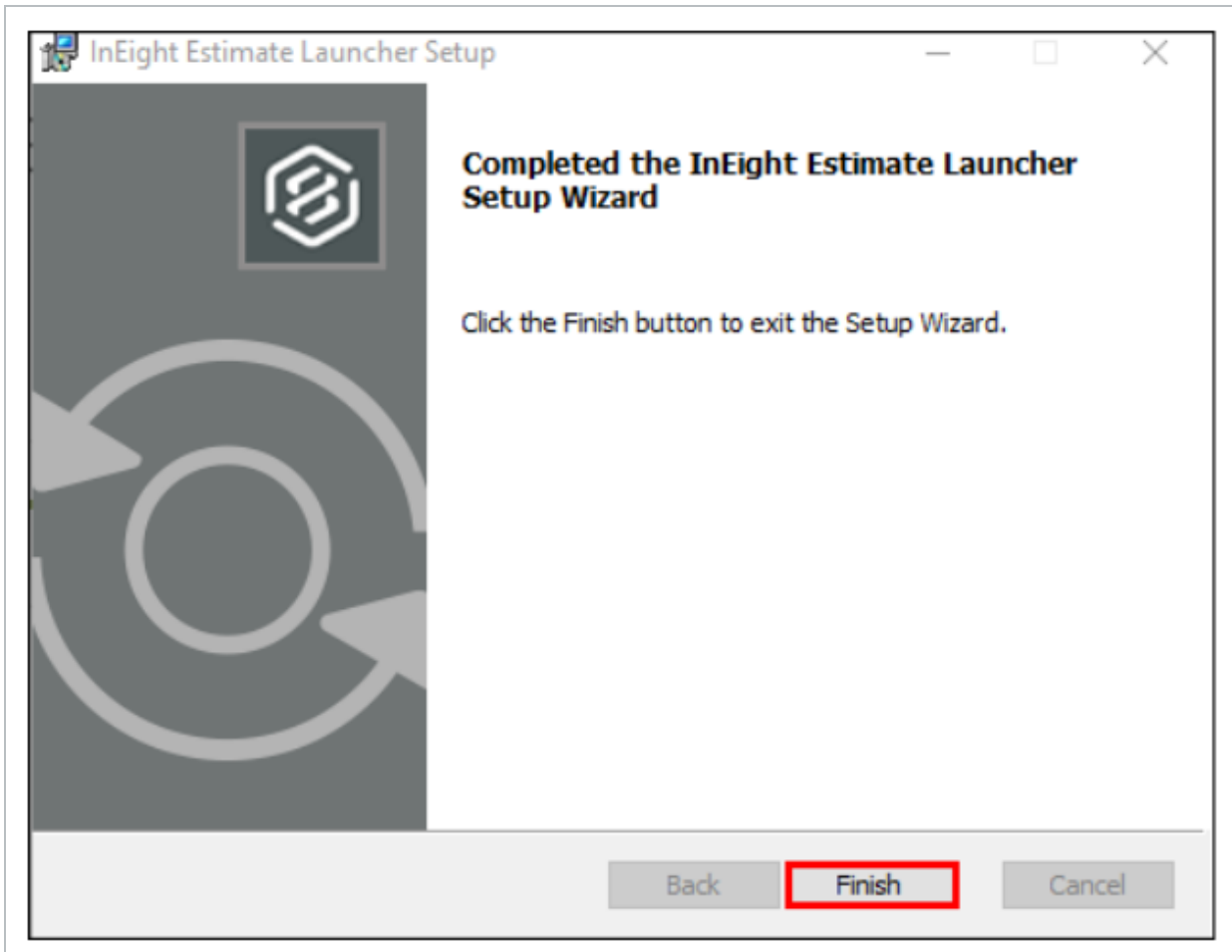
- The EstimateLauncher.msi file shows.



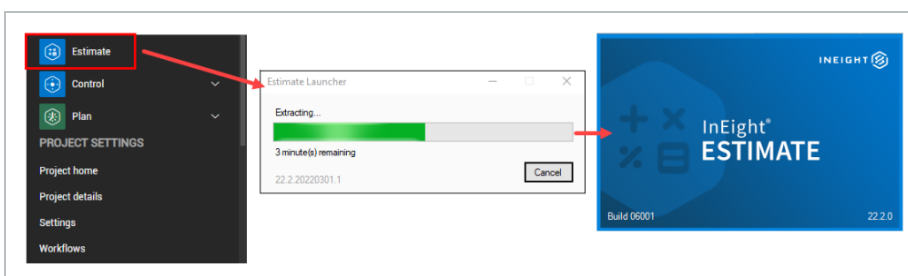
- Opening the EstimateLauncher.msi file opens the InEight Estimate Launcher Setup window.
3. Select **Open**, and then click **Next** to start the one-time Estimate Launcher download. Afterwards, you will be able to open Estimate from the Main menu or the home page.



- Click **Finish** to complete the Estimate Launcher Setup installation.



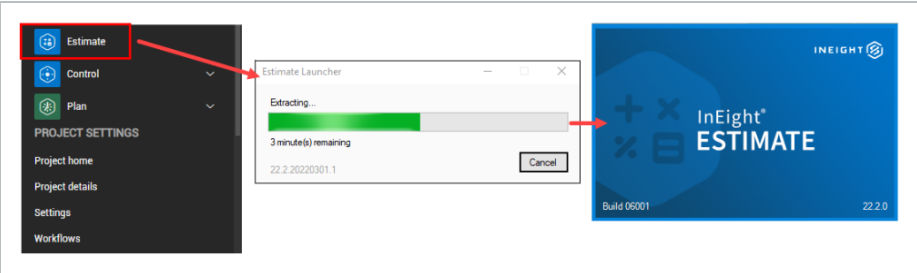
- Select **Estimate** again to start the Estimate Launcher, which extracts the required files to launch the Estimate application.



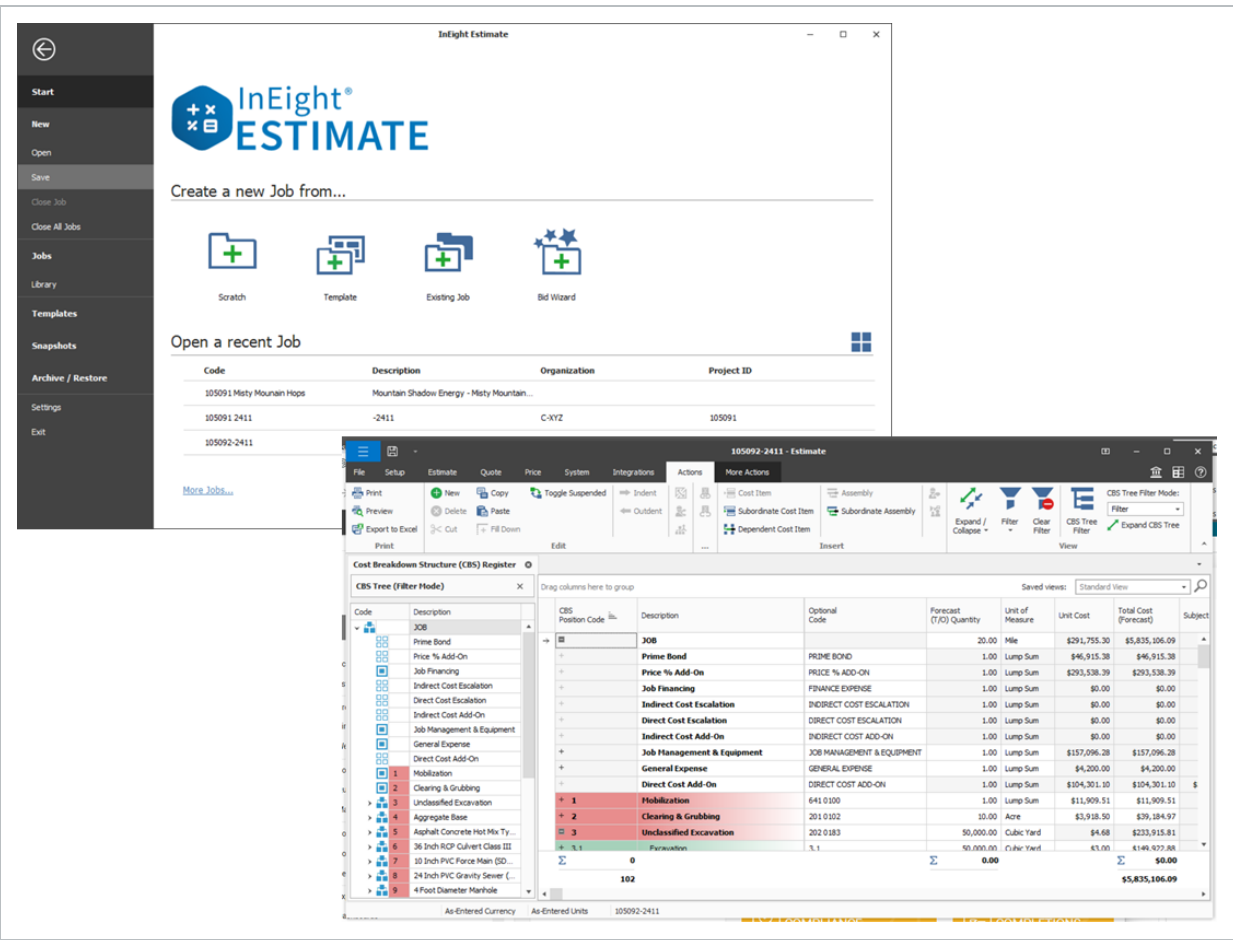
After setting up your Estimate preferences and installing the Estimate launcher, you can begin using Estimate.

STEP BY STEP – ESTIMATE SUBSEQUENT USE

1. Launch Estimate by selecting **Estimate** from the Main menu.



- Estimate in the cloud looks and functions much like the Estimate on-premise version. For example, opening a job from the landing page brings you to the Cost Breakdown Structure register, or the register designated as the start page in the application settings.



RELEVANT LINKS

System settings options

Archive and restore jobs

Video - Navigating tabs within Estimate

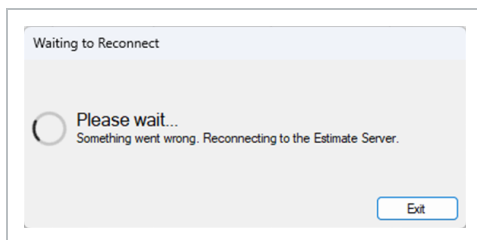
Video - Backstage view

2.3 ESTIMATE RESILIENCY

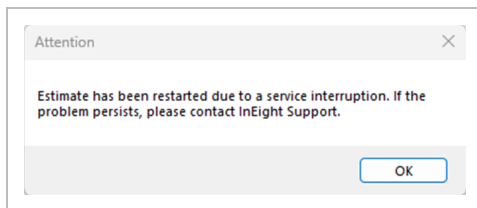
As a SaaS product, Estimate is sometimes made the casualty of server-side interruptions in service, which are out of Estimate's control. The auto-save function makes attempts to save your data prior to Estimate shutting down.

When an unexpected disruption occurs in Estimate and causes it to shut down, notifications show alerting you of the restore process to minimize the impact on you when these interruptions occur:

- A Waiting to Reconnect notification box shows, alerting you that it is reconnecting to the server.



- When Estimate restarts, an Attention notification shows, alerting you that Estimate is being restarted due to a service interruption.



RELEVANT LINKS

System settings options

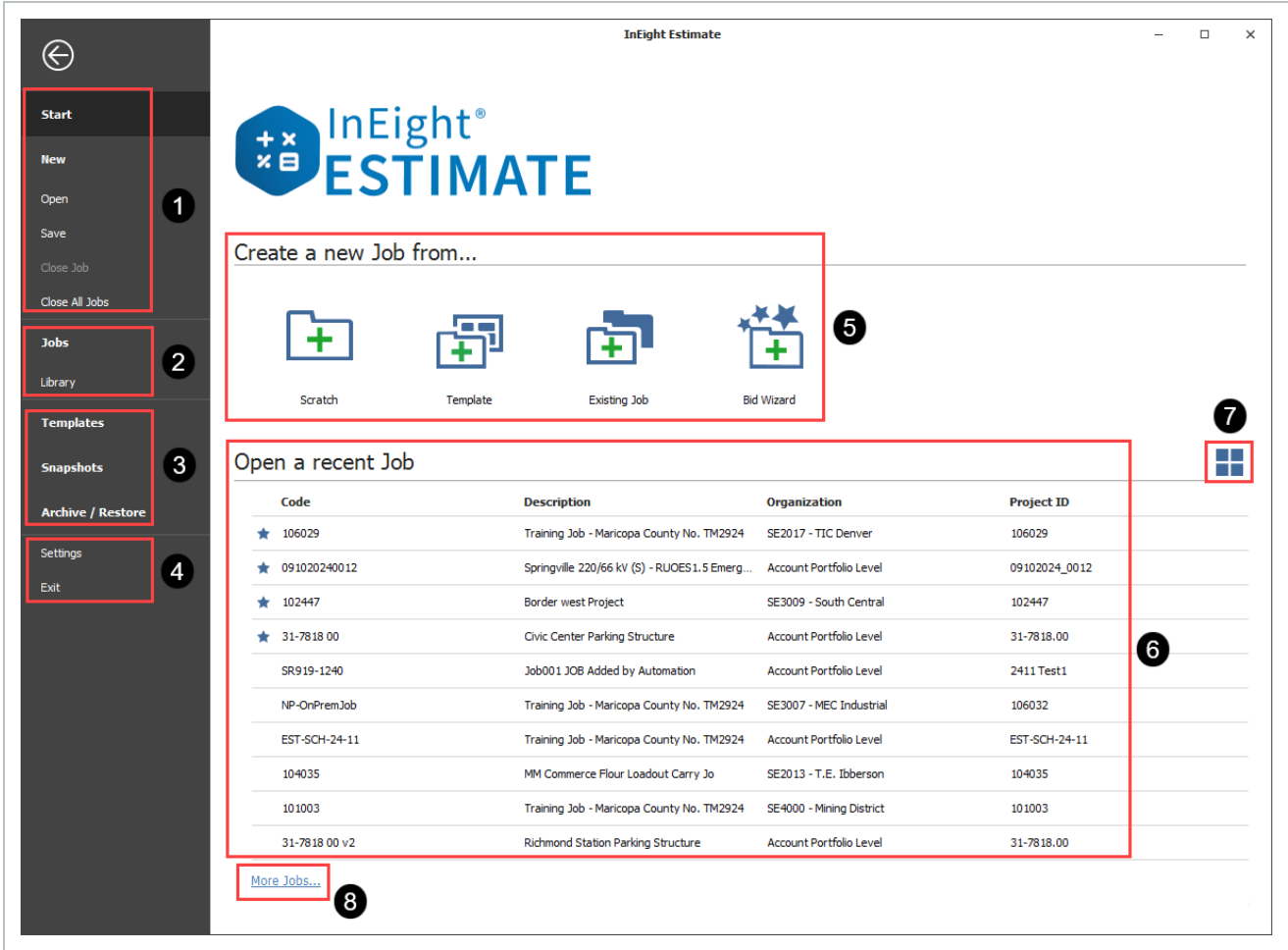
Archive and restore jobs

Video - Navigating tabs within Estimate

Video - Backstage view

2.4 BACKSTAGE VIEW

When you open Estimate, you land in the Backstage view. You can also get to the Backstage view from other tabs, by selecting the File menu.



Section	Description
1	Create new jobs, open, save, or close opened jobs.
2	Access the library and open the Jobs page. In the Jobs page, you can access the following options: <ul style="list-style-type: none">Job RegisterDelete JobCompare JobsConnected Analytics

Section	Description
3	<p>Access templates, snapshots, and archive or restore options.</p> <ul style="list-style-type: none"> • Templates - Create job templates. • Snapshots - Open the Snapshots page where you can create job snapshots and open the Snapshot Register to access previously created snapshots. • Archive / Restore - Open the Archive / Restore page where you can access the following options: <ul style="list-style-type: none"> ◦ Archive Job ◦ Restore job ◦ Merge Jobs with Archive ◦ Archive Template ◦ Restore Template
4	<p>Open the Settings page where you can access the following options:</p> <ul style="list-style-type: none"> • General - Customize General, Title Bars, Navigation Bar, Job Startup, and Language options. • Decimal Precision - Manage decimal precision for various values in Estimate. • Restore Defaults - Click to restore default values for selected settings.
5	<p>Create a new job from scratch, from a template, from an existing job, or by using the Bid Wizard..</p>
6	<p>View up to 10 recently opened jobs as a list or thumbnail tiles to quickly access recently opened jobs. You can click the Favorites icon to the left of the job code to label up to five jobs as favorites. The jobs labeled as favorites show at the top of the list.</p>
7	<p>Change between the list view or tile view using the List-Tile view icon at the top right of the section. The source for the thumbnail images in the tiles is from the estimate project in InEight Platform. The following image shows the tile view.</p>

Section

Description

The screenshot shows the InEight Estimate Backstage View. On the left is a dark sidebar with a menu. Callout 1 points to the 'Start' button. Callout 2 points to the 'Jobs' section. Callout 3 points to the 'Templates' section. Callout 4 points to the 'Settings' button. The main area has a header with the InEight logo and 'ESTIMATE'. Below the header, there are two sections: 'Create a new Job from...' and 'Open a recent Job'. The 'Create a new Job from...' section has four icons: 'Scratch', 'Template', 'Existing Job', and 'Bid Wizard'. Callout 5 points to the 'Bid Wizard' icon. The 'Open a recent Job' section contains a table of recent jobs. Callout 6 points to the table. Callout 7 points to a window icon in the top right. Callout 8 points to a 'More Jobs...' link at the bottom of the table.

Code	Description	Organization	Project ID
★ 106029	Training Job - Maricopa County No. TM2924	SE2017 - TIC Denver	106029
★ 091020240012	Springville 220/66 kV (S) - RUOES 1.5 Emerg...	Account Portfolio Level	09102024_0012
★ 102447	Border west Project	SE3009 - South Central	102447
★ 31-7818 00	Civic Center Parking Structure	Account Portfolio Level	31-7818.00
SR919-1240	Job001 JOB Added by Automation	Account Portfolio Level	2411 Test1
NP-OnPremJob	Training Job - Maricopa County No. TM2924	SE3007 - MEC Industrial	106032
EST-SCH-24-11	Training Job - Maricopa County No. TM2924	Account Portfolio Level	EST-SCH-24-11
104035	MM Commerce Flour Loadout Carry Jo	SE2013 - T.E. Ibberson	104035
101003	Training Job - Maricopa County No. TM2924	SE4000 - Mining District	101003
31-7818 00 v2	Richmond Station Parking Structure	Account Portfolio Level	31-7818.00

8 Open the Job Register where you can search and open jobs that do not show in Open a recent job list.

2.4.1 ARCHIVE / RESTORE

From the Backstage View, you can back up and restore your jobs using the Archive/Restore feature. For more information, see [Archive and Restore Jobs](#) in Estimate Data Management.

2.4.2 SETTINGS

From the **Settings** in the Backstage view, you can adjust some system settings. For more information, see [System Settings Options](#).

2.4.3 PROMPT TO SAVE

An important setting to visit in the Tools menu is **Prompt to Save**. InEight Estimate does not automatically save your work. Instead, it will prompt you to save as often as you specify in the general settings.

2.4.4 DECIMAL PRECISION

The **Decimal Precision** setting is also helpful. This is where you can specify the way your numbers display in the system. For example, you may want your costs to display to the hundredth decimal place (2), and your quantities to display as whole numbers with nothing to the right of the decimal (0).

TIP

Changing decimal precision does not affect the way your numbers are calculated.

RELEVANT LINKS

[System settings options](#)

[Archive and restore jobs](#)

[Video - Navigating tabs within Estimate](#)

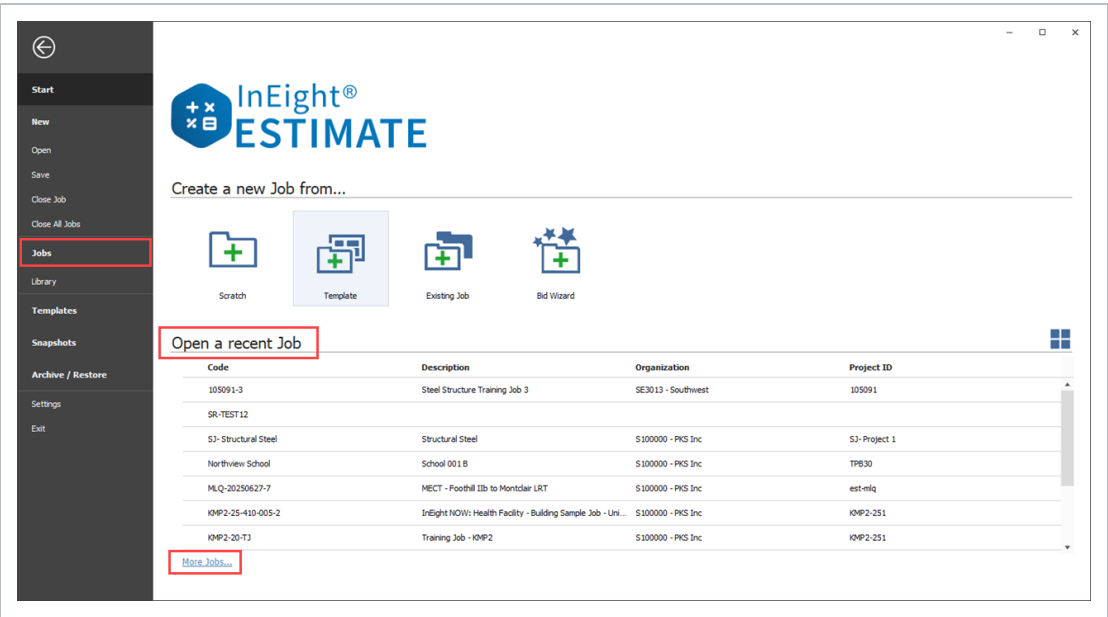
[Video - Backstage view](#)

2.5 LOAD A JOB

From the Backstage view, you can load a job by:

- Selecting a job from the Open a recent Job section.
- Clicking **More Jobs** to select from the Job Register.

- Clicking **Jobs** from the left menu and then clicking **Job Register**.



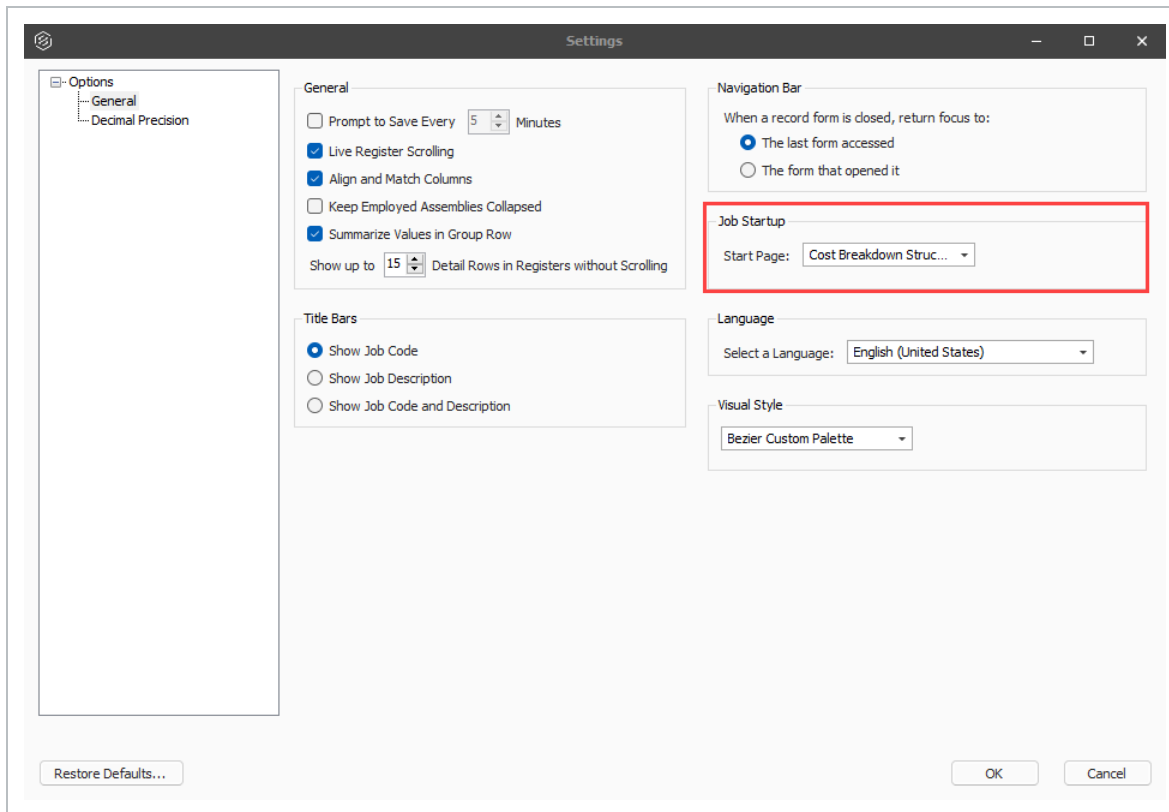
There are multiple ways to load a job from the Job Register. For more information, see [Manage jobs from the Job Register](#).

When you load a job, it loads into the Cost Breakdown Structure Register by default.

The screenshot shows the 'Cost Breakdown Structure (CBS) Register' in the InEight ESTIMATE software. The window title is '105091 TRG 0306 - Estimate'. The top menu bar includes File, Setup, Estimate, Quote, Price, System, Developer Tools, Integrations, Actions, and More Actions. The top toolbar contains various icons for editing and viewing. The main area displays a table with columns: CBS Position Code, Description, Forecast (T/O) Quantity, Unit of Measure, Unit Cost, Total Cost (Forecast), Currency, and Quote Group. The table lists various cost items, including JOB, Prime Bond, Price % Add-On, Job Financing, Indirect Cost Escalation, Direct Cost Escalation, Indirect Cost Add-On, Job Management & Equipment, General Expense, Direct Cost Add-On, Mobilization, Clearing & Grubbing, and Unclassified Excavation. The bottom of the table shows a summary with a total cost of \$5,872,183.00. The bottom status bar shows 'As-Entered Currency', 'As-Entered Units', 'Main-T01', and '105091 TRG 0306'.

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Currency	Quote Group
JOB		20.00	Mile	\$293,609.18	\$5,872,183.61	U.S. Dollar	
+	Prime Bond	1.00	Lump Sum	\$47,271.25	\$47,271.25	U.S. Dollar	
+	Price % Add-On	1.00	Lump Sum	\$296,741.22	\$296,741.22	U.S. Dollar	
+	Job Financing	1.00	Lump Sum	\$0.00	\$0.00	U.S. Dollar	
+	Indirect Cost Escalation	1.00	Lump Sum	\$0.00	\$0.00	U.S. Dollar	
+	Direct Cost Escalation	1.00	Lump Sum	\$0.00	\$0.00	U.S. Dollar	
+	Indirect Cost Add-On	1.00	Lump Sum	\$0.00	\$0.00	U.S. Dollar	
+	Job Management & Equipment	1.00	Lump Sum	\$157,096.28	\$157,096.28	U.S. Dollar	
+	General Expense	1.00	Lump Sum	\$4,200.00	\$4,200.00	U.S. Dollar	
+	Direct Cost Add-On	1.00	Lump Sum	\$104,958.33	\$104,958.33	U.S. Dollar	
1	Mobilization	1.00	Lump Sum	\$11,909.51	\$11,909.51	U.S. Dollar	
2	Clearing & Grubbing	10.00	Acre	\$3,918.50	\$39,184.97	U.S. Dollar	
3	Unclassified Excavation	50,000.00	Cubic Yard	\$4.68	\$233,915.81	U.S. Dollar	
Σ	0	Σ	0.00	Σ	\$0.00		
102					\$5,872,183.00		

You can change the default form that opens when you load a job in Backstage view > Settings > Options > **General**. In the Job Startup section, select a form from the Start Page drop-down list.



In the Job Register, you can easily access a job's properties. For more information, see **Open a job's properties from the Job Register** from [Manage jobs from the Job Register](#).

For more information about job properties, see [Job Properties](#) in Project Setup.

RELEVANT LINKS

Job Register

Manage jobs from the Job Register

Job properties

Video - Navigating tabs within Estimate

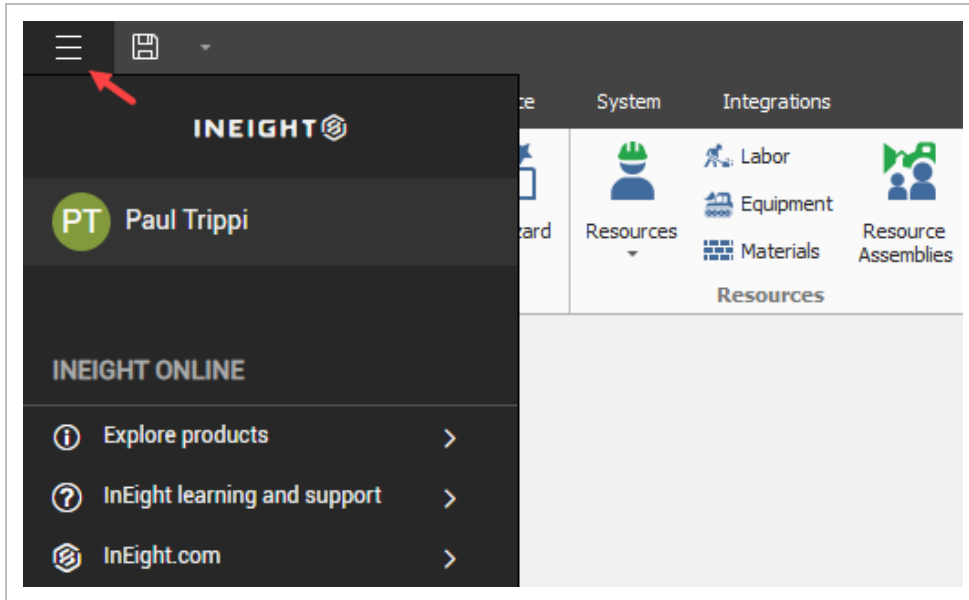
Video - Backstage view

2.6 COMMON NAVIGATION

Access the common navigation slide-out panel by selecting the main menu located on the top left side of the Estimate page. This feature provides a common navigation user experience that is shared amongst all InEight products. The primary intent of this navigation menu is to provide a consistent

InEight product experience, with similar Project Suite graphical interfaces, while working within multiple InEight products.

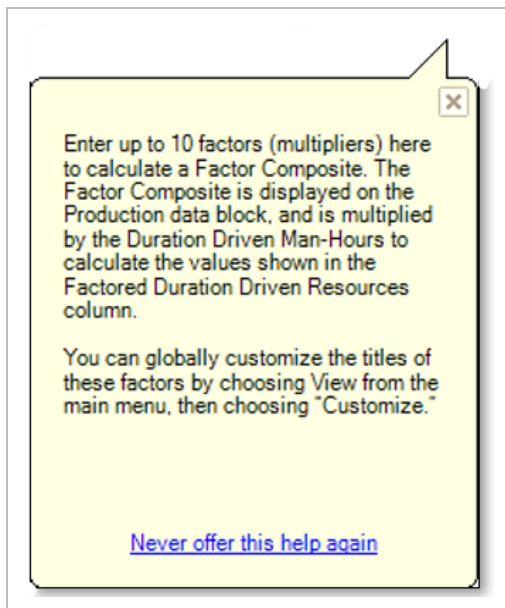
Estimate's on-premise software is authenticated by your Windows login credentials, which is shown below the main menu.



2.6.1 HELP BUBBLES

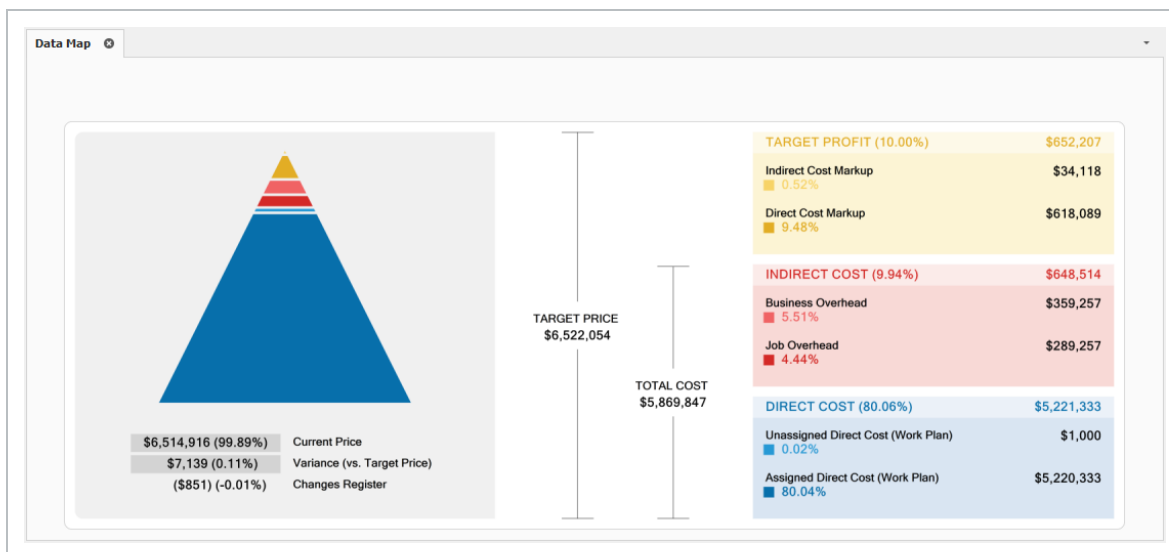
Help bubbles appear at various times in InEight Estimate, including the first time you open InEight Estimate. These messages contain important information to clarify key functions in the system.

You can dismiss the message until the next time by closing it with the X in the corner or dismiss it permanently by clicking the **Never offer this help again** link.



2.6.2 DATA MAP

Found in the Price tab, the Data Map is a great way to view a high level summary of your estimate and can be accessed at any time during the estimating process. You can see totals of direct costs, indirect costs, profit, and overall bid price.



RELEVANT LINKS

System settings options

Archive and restore jobs

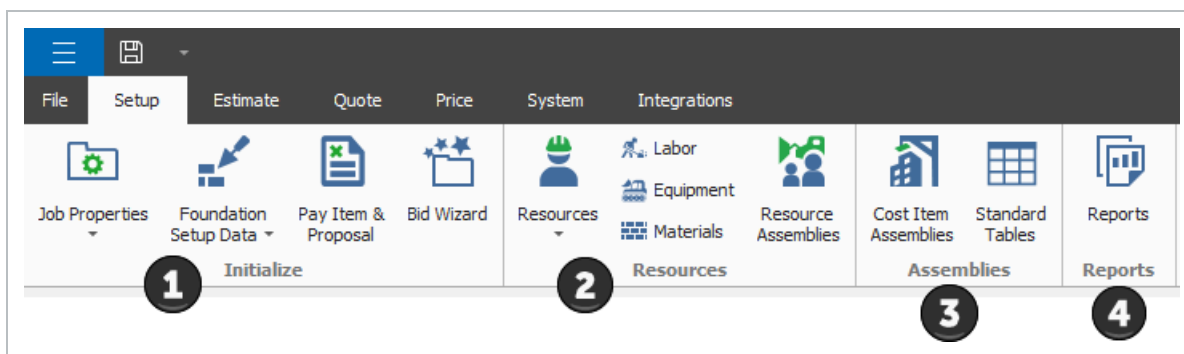
Video - Navigating tabs within Estimate

Video - Backstage view

2.7 INEIGHT ESTIMATE LAYOUT

The layout of InEight Estimate is workflow based. You will move from left to right on the tabs as you enter your data for the project and work on developing your estimate.

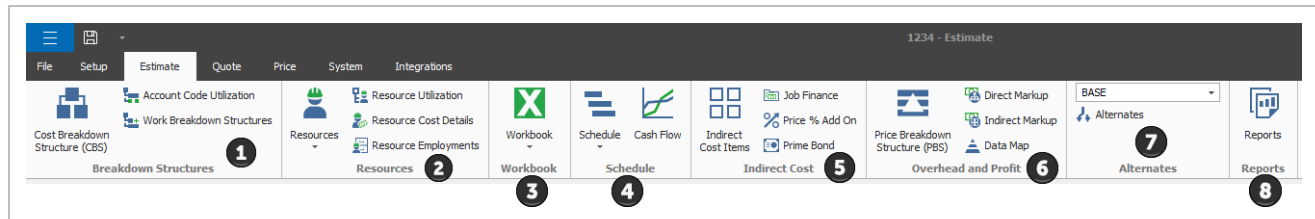
2.7.1 SETUP TAB OVERVIEW



Section		Description
1	Initialize	From the initialize section, you can access the following registers. Job Properties is where you enter the basic project details. Foundation Setup Data is where you populate all account codes and validated fields. The Pay item & Proposal Register provides an alternate structure to distribute estimated values. Bid Wizard helps automate the process of setting up estimates by copying information that already exists in other jobs.
2	Resources	In the Resources section, Resource Rates opens the Resource Rate Register, where detail costs for labor, equipment and material is stored. The Resource Assemblies opens the Resource Assembly Register, where you create a combination of resources as an assembly and reuse it as needed in multiple cost items.
3	Assemblies	You can create a Cost Item Assembly to automatically estimate different scopes of work based on input values. Standard tables - allow you to create tables of reference data that can be accessed in any cost item assembly.

Section	Description
4 Reports	The Reports section is available from any tab. Depending on the tab you access it from will bring you to reports specific to that tabs data. Here you will find reports on resources such as Resources Changes, Resource Utilization, and Resource Cost Details.

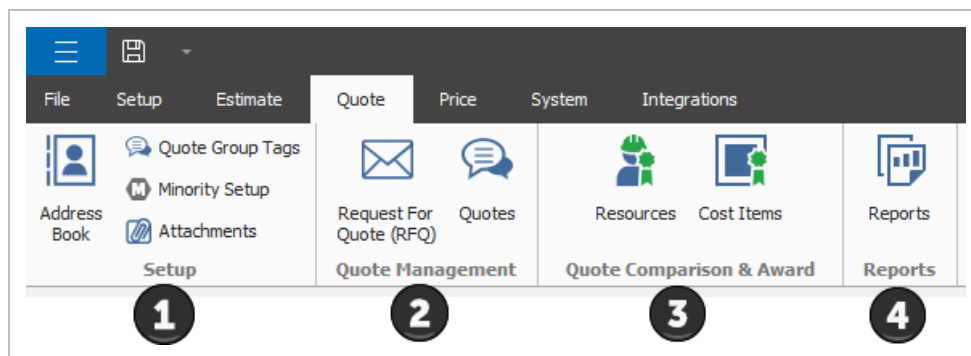
2.7.2 ESTIMATE TAB OVERVIEW



Section	Description
1 Quantity Takeoff	Import and manage quantity takeoff data using the Quantity Item Sources, Quantity Item, and Quantity Item Employments registers.
2 Breakdown Structures	Access the Cost Breakdown Structure (CBS) Register, Account Code Utilization Register, and Work Breakdown Structures (WBS) Register.
3 Resources	Resource Rate Register is where you create or modify the rate charged for labor, material and equipment resources. Different views of the Resource Rate register such as Resource Utilization and Resource Cost Details are available from the Resources section.
4 Workbook	InEight Estimate's integration with Microsoft Excel is a two-way integration that allows you to update register fields in Estimate with data contained in an Excel workbook, and update Excel cells with data contained in a register field in Estimate. This is where you open the embed excel workbook which is maintained as part of the estimate job folder and where you perform the sync functions to send values back and forth.
5 Schedule	Access bi-directional integration with Microsoft Project and Oracle Primavera. The Cash Flow graph displays the projected cash flow of your project, along with the job financing expense, individual cost category costs and resource utilization.

Section		Description
6	Indirect Cost	Indirect Cost Items filters the CBS register to display cost items that contain overhead costs that are not directly associated with any particular deliverable items. Clicking on % Price Add on or Prime Bond opens up these individual records.
7	Overhead and Profit	Price Breakdown Structure (PBS) Register is a visual run-down of the costs and profit that make up your Target Price. You can access the Direct and Indirect Markup records or see totals of direct costs, indirect costs, profit and overall bid price summarized in a Data Map.
8	Alternates	Alternates are used to define alternate scenarios in order to assess the impact of those scenarios.
9	Reports	Run reports on CBS Summary, CBS Details, CBS Outline, CBS Estimate Summary, CBS Currency Comparison.

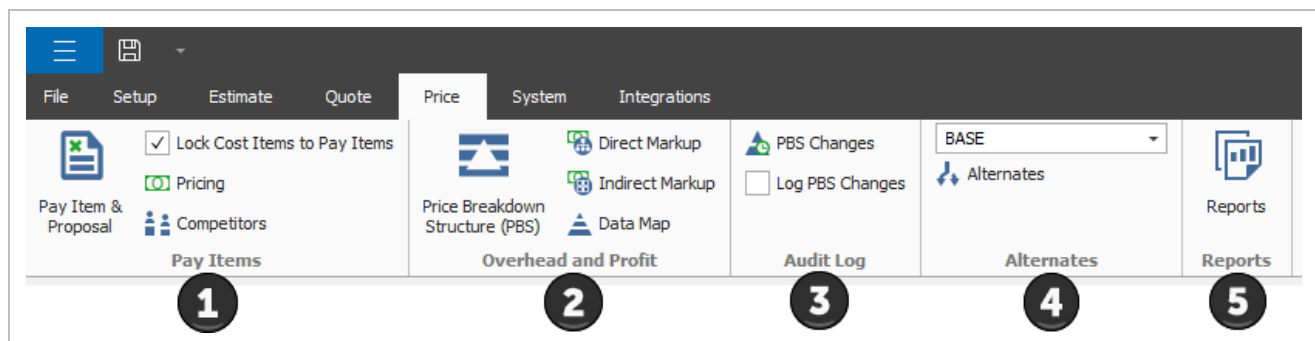
2.7.3 QUOTE TAB OVERVIEW



Section		Description
1	Setup	Quotes are organized using Address book, Quote Group Tags, Minority Setup and attachments in the Setup section. Address book stores and maintains all information pertaining to subcontractors, vendors, architects/engineers, etc. that you work with regularly. The Minority Setup tab within Job Properties stores information about the agency that authorizes the status of Minority Enterprises along with their different types. You can use Quote Group Tags to group together multiple resources or cost items that will be sent in a single request for quote package to solicited contractors or vendors..

Section	Description
2 Quote Management	Quote Management allows you to access the Requests for Quote (RFQs) register and Quotes. Request for Quotes (RFQs) are invitations to sellers, requesting that they submit pricing to provide services, equipment or material based on the line items and resources included in your estimate. The Quote Register stores all of the quote responses you receive for that job.
3 Quote Comparison & Award	The Quote Comparison & Award section allows you to perform comparative analysis across all the quotes you've received. You can view a comparison of submitted pricing by resources or cost items.
4 Reports	From the Reports section in Quotes you can run reports on Quote Summary, Quote Record, Compare & Award, and Minority Participation.

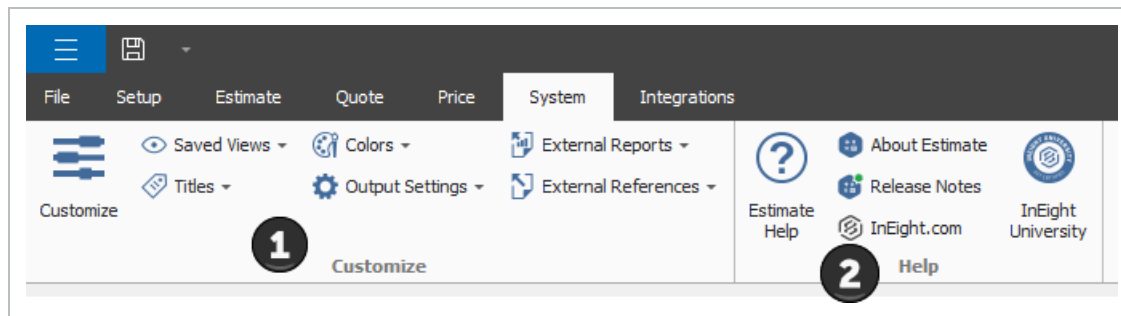
2.7.4 PRICE TAB OVERVIEW



Section	Description
1 Pay Items	From the Pay Items section you can lock Cost items to Pay items and access the Pay item & Proposal register. Under Pricing in Job Properties, you can set up how the tool calculates profit and spreads pricing to your pay items. In the Competitors section, you can keep track of companies that have submitted bids as well as record and track competitor bid prices.
2 Overhead and Profit	The Price Breakdown Structure (PBS) Register is a visual run-down of the costs and profit that make up your Target Price. You can access the Direct and Indirect Markup records or see totals of direct costs, indirect

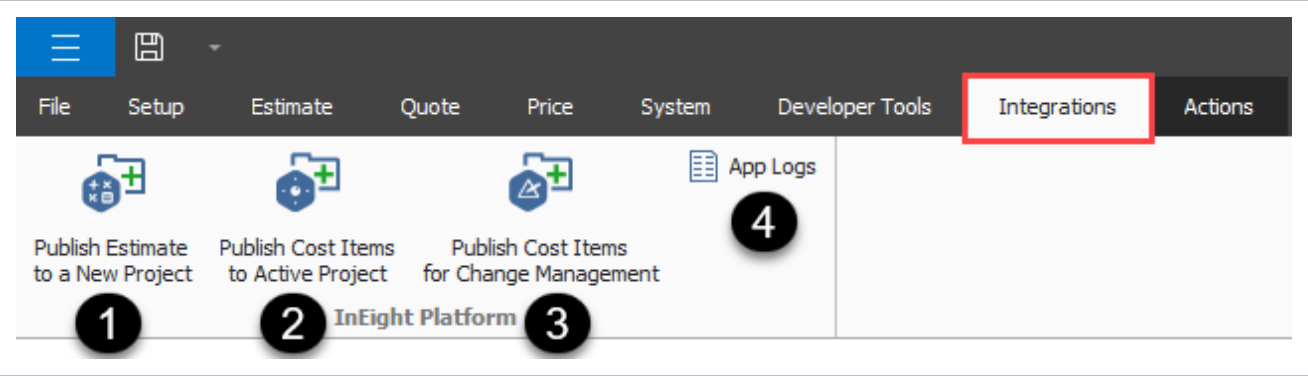
Section		Description
		costs, profit and overall bid price summarized in a Data Map.
3	Audit Log	You can access the PBS Changes register (which logs any changes that effect the Target Price) and turn on/off logging PBS changes..
4	Alternates	Alternates are used to define alternate scenarios in order to assess the impact of those scenarios on the total estimate value.
5	Reports	From the Reports section in the Price tab, you can generate reports for Standard Proposal, DOT Proposal, Pay Item Summary, Pay Item Currency Comparison, Pay Item Price Breakdown.

2.7.5 SYSTEM TAB OVERVIEW



Section		Description
1	Custom	You can customize the titles and colors for different fields. You can export and import saved Views, Titles, Colors and Output Settings. You can customize reports generated by Estimate using External reports. External References allows you to open external programs with Estimate.
2	Help	You can access a comprehensive help system from the Help menu. You can get information about the Estimate Version and all new updates about the different versions.

2.7.6 INTEGRATIONS TAB OVERVIEW



	Section	Description
1	Publish Estimate to a New Project	Sends job data to InEight Platform Integration. You can continue using Estimate during the publish and will be notified after the data has been sent successfully.
2	Publish Cost Items to Active Project	Sends cost items to the active project.
3	Publish Cost Items for Change Management	Sends cost items to InEight Platform Integration to import to InEight Change.
4	App Logs	Shows a list of InEight Project Suite application logs that you can export to Excel.

2.7.7 LIBRARY

Click on the Library icon and the Library opens in its own window.



Users with sufficient security can access master information available in the Library.

TIP

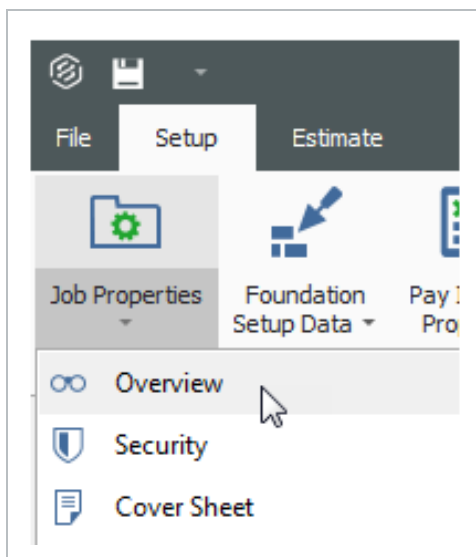
The Library is covered in greater detail in 3.1 Library Overview on page 80

2.7.8 OPEN FORMS

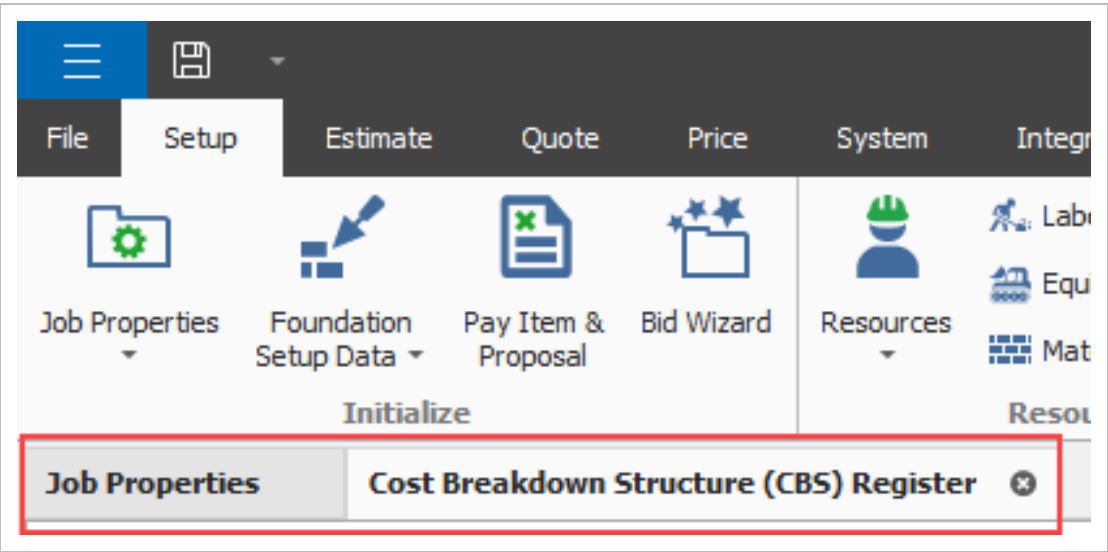
The following steps assume you already opened the Training Job.

STEP BY STEP – OPEN FORMS

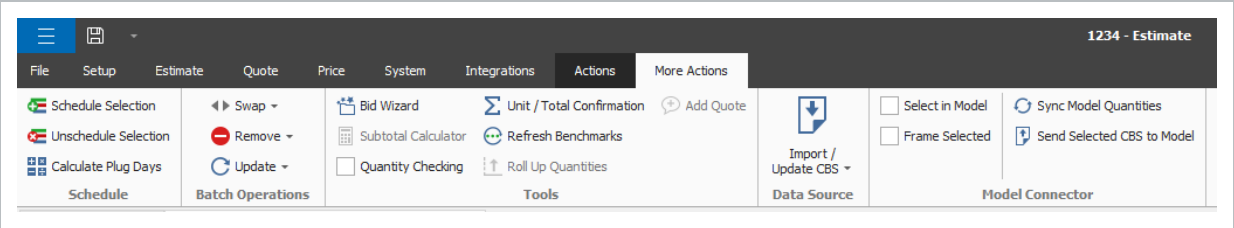
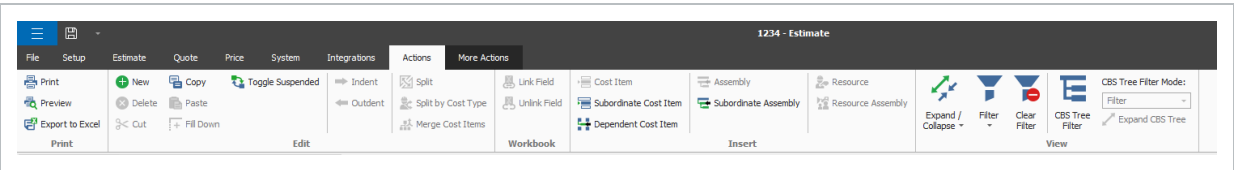
1. Click on the **Setup** tab.
2. In the Initialize section of the Setup tab, click on the **drop-down menu** for Job Properties.
3. Select **Overview** to open the Job Properties form.



- Notice that each form opens in its own tab within the active job folder



- You can tab between these forms as you are working in InEight Estimate
- Once you are in a register, the Actions and More Actions tabs are available to you. The options available are contextual to that register



RELEVANT LINKS

System settings options

Archive and restore jobs

Video - Navigating tabs within Estimate

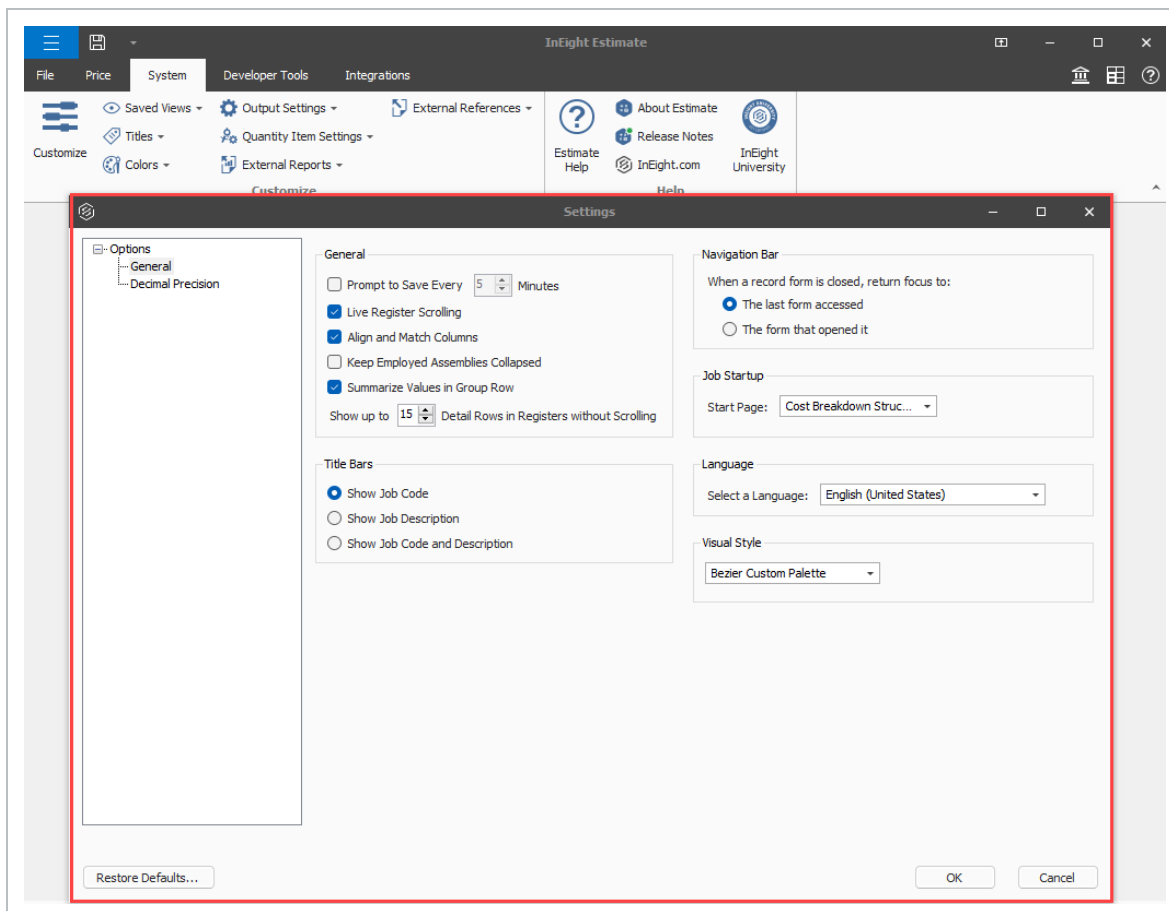
Video - Backstage view

2.8 SYSTEM SETTINGS OPTIONS

From the Backstage View, you can access system settings. System settings contain options and settings that effect the entire InEight Estimate system. These settings include:

- General settings (options)
- Title Bars
- Navigation Bar
- Job Startup
- Language
- Visual Style

All of the settings under the Options branch are user-level settings.



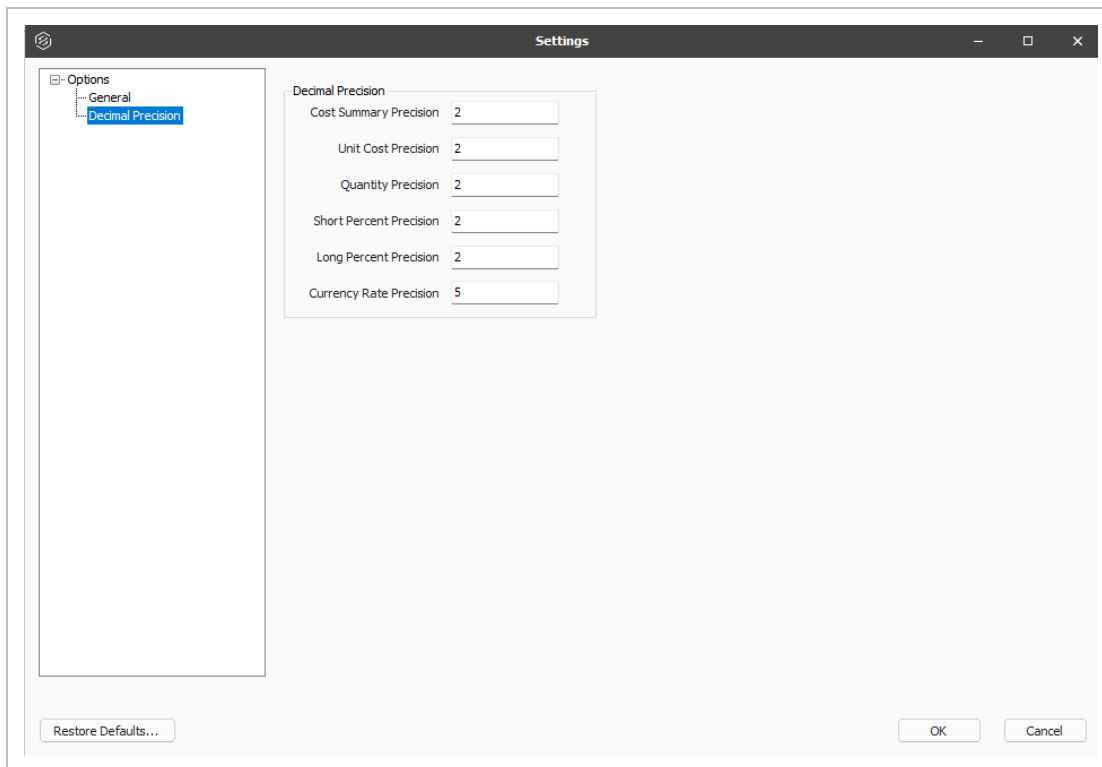
The following step by step walks you through configuring general settings (options).

STEP BY STEP – DECIMAL PRECISION

1. With InEight Estimate open, click on the **File** tab to go to the Backstage view.
2. Select **Settings**.
3. Select **General** under Options in the node tree on the left.
4. To activate Prompt to Save, select the **Prompt to Save** checkbox.
5. Select how often you want to be prompted (in minutes).
6. Select **Decimal Precision** in the tree on the left.
7. Review the default settings.

TIP

Units of Measure will default to English, and Currency will default to U.S. Dollar.



2.9 COLUMNS

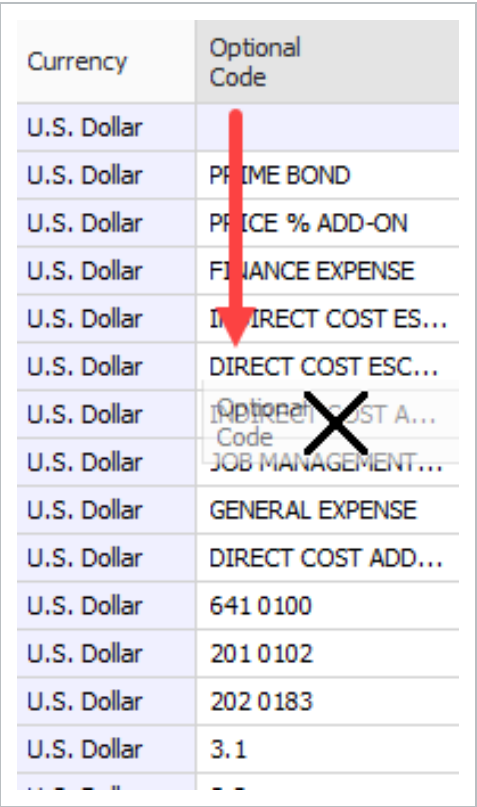
Within each register, you can move, sort, filter and group your columns to view the information the way you need to see it.

2.9.1 MOVE COLUMNS

You can move columns by selecting a column header and using drag-and-drop. If there are columns on the register that you don't use, you can hide and unhide them from view, as needed.

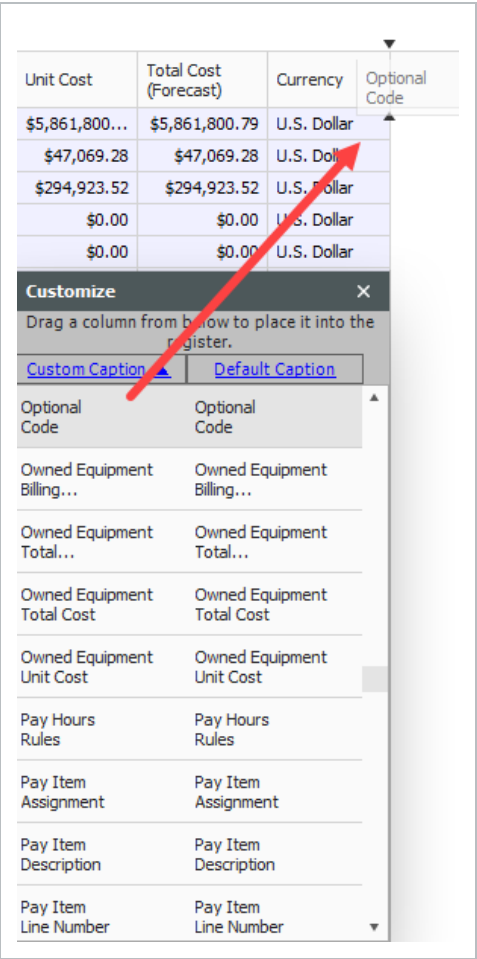
STEP BY STEP – MOVE COLUMNS

- 1. In the CBS, click on the **Currency** column header and drag the column to the left, dropping it to the right of the Description column.
- 2. Hide the **Optional Code** column by dragging the Optional Code column header down until a black X appears, then let go.

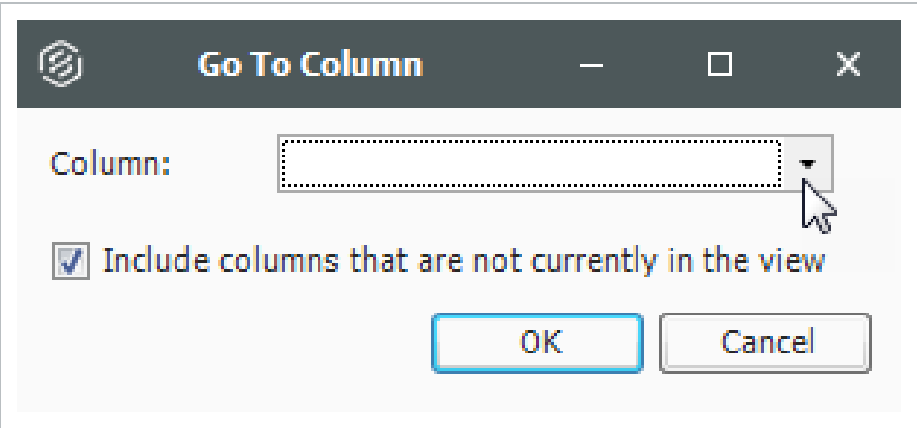


Currency	Optional Code
U.S. Dollar	
U.S. Dollar	PRIME BOND
U.S. Dollar	PRICE % ADD-ON
U.S. Dollar	FINANCE EXPENSE
U.S. Dollar	INDIRECT COST ES...
U.S. Dollar	DIRECT COST ESC...
U.S. Dollar	Optional Code
U.S. Dollar	JOB MANAGEMENT...
U.S. Dollar	GENERAL EXPENSE
U.S. Dollar	DIRECT COST ADD...
U.S. Dollar	641 0100
U.S. Dollar	201 0102
U.S. Dollar	202 0183
U.S. Dollar	3.1
.. - - "	- -

- The Optional Code is now hidden from view
 - To unhide a column, right click on any column header and select **Column Chooser**; a Customization window appears, which contains all the hidden columns in that register
3. Find the **column** you want to unhide and drag-and-drop it to the location where you want it to go.



- You can also unhide a column using the Go To Column feature
4. Right click on a **column** header and select **Go To Column**.
 5. Click on the **drop-down menu** and select the column you want to unhide.



6. Click **OK**.

2.9.2 SORT AND FILTER COLUMNS

You can sort and filter your columns to drill down to specific information.

STEP BY STEP – SORT COLUMNS

You can sort on any column by clicking once on the column header.



1. In the CBS Register, click on the **Total Cost (Forecast)** column to sort the column in ascending order (e.g., 1 to 10, A to Z).
2. Click the **Total Cost (Forecast)** column a second time to sort in descending order (e.g., 10 to 1, Z to A).

TIP

Use Ctrl-click to unsort a column and reset it to its original state.

STEP BY STEP – FILTER COLUMNS

1. In the CBS, hover over the **Unit of Measure** column header for the filter icon to appear.
2. Click on the **filter** icon in the Unit of Measure column to select a filter value.
 - From the filter list, you can select any of the values defined for that column or you can use one of the predefined values (Custom, Blanks, Non blanks).

Unit of Measure 	Unit Cost	Total Cost (Forecast)														
<div>Values Text Filters</div> <div><input type="text" value="Enter text to search..."/> </div> <div><table><tbody><tr><td><input checked="" type="checkbox"/> (All)</td><td><input type="checkbox"/> Month</td></tr><tr><td><input type="checkbox"/> Acre</td><td><input type="checkbox"/> Pound</td></tr><tr><td><input type="checkbox"/> Cubic Yard</td><td><input checked="" type="checkbox"/> Square Feet</td></tr><tr><td><input checked="" type="checkbox"/> Each</td><td><input type="checkbox"/> Square Yard</td></tr><tr><td><input type="checkbox"/> Linear Feet</td><td><input type="checkbox"/> Ton</td></tr><tr><td><input checked="" type="checkbox"/> Lump Sum</td><td></td></tr><tr><td><input type="checkbox"/> Mile</td><td></td></tr></tbody></table></div> <div><div>Clear Filter</div><div>Filter Editor</div><div>Close</div></div>			<input checked="" type="checkbox"/> (All)	<input type="checkbox"/> Month	<input type="checkbox"/> Acre	<input type="checkbox"/> Pound	<input type="checkbox"/> Cubic Yard	<input checked="" type="checkbox"/> Square Feet	<input checked="" type="checkbox"/> Each	<input type="checkbox"/> Square Yard	<input type="checkbox"/> Linear Feet	<input type="checkbox"/> Ton	<input checked="" type="checkbox"/> Lump Sum		<input type="checkbox"/> Mile	
<input checked="" type="checkbox"/> (All)	<input type="checkbox"/> Month															
<input type="checkbox"/> Acre	<input type="checkbox"/> Pound															
<input type="checkbox"/> Cubic Yard	<input checked="" type="checkbox"/> Square Feet															
<input checked="" type="checkbox"/> Each	<input type="checkbox"/> Square Yard															
<input type="checkbox"/> Linear Feet	<input type="checkbox"/> Ton															
<input checked="" type="checkbox"/> Lump Sum																
<input type="checkbox"/> Mile																

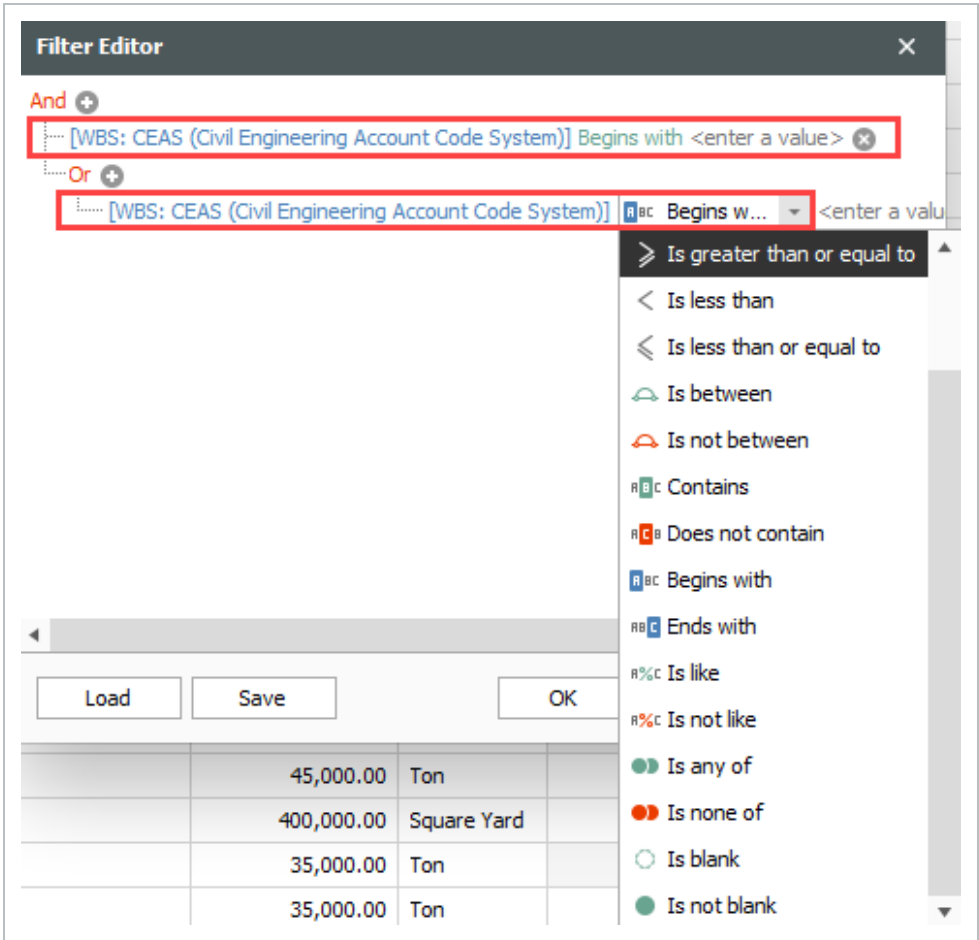
- 3. Make your selection, then click **Close**.
- 4. To clear the filter, click on the **red X** at the bottom of the form or click on the filter icon on the header of the column you filtered and select **(All)**, then click **OK**.

2.9.2.1 FILTER EDITOR OVERVIEW

Column filters can be managed on individual columns or for the entire register using the Filter Editor. The Filter Editor tool lets work with all the column filters for a register view in one place as well as creating more complex filters through the use of grouping and applying And/Or statements.

When you add a new Group, a new Condition is automatically added to that Group.

With each additional Condition statement, you need to select an operator and a value in order for your customized filter to take effect on your chosen column. Many new comparison operators have been added to this version as shown below:



CREATING COMPLEX FILTERS USING THE FILTER EDITOR

You can define filters across any of the columns available in the CBS register. You can also open the Filter Editor using the button in the column filter drop-down, but regardless of how you access it, the Filter Editor dialog permits defining a filter for the entire register and not just the selected column.

Cost Breakdown Structure (CBS) Register

Drag columns here to group

CBS Position Code	Description	Optional Code	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Is Terminal	Cost Source
+	Price % Add-On	PRICE % ADD-...	1.00	Lump Sum	\$312,935.61	\$312,935.61	<input checked="" type="checkbox"/>	
+	Direct Cost Add-On	DIRECT COST ...	1.00	Lump Sum	\$110,803.57	\$110,803.57	<input checked="" type="checkbox"/>	
+	Job Management & Equipment	JOB MANAGEM...	1.00	Lump Sum	\$157,096.28	\$157,096.28	<input checked="" type="checkbox"/>	Detail
+ 3.1	Excavation		42,000.00	Cubic Yard	\$3.44	\$144,552.52	<input checked="" type="checkbox"/>	Detail
+ 4.1	Furnish & Haul Base Material	4.1	45,000.00	Ton	\$13.67	\$615,142.90	<input checked="" type="checkbox"/>	Detail
+ 5.1	Furnish & Haul Hot Mix					\$74,562.54	<input checked="" type="checkbox"/>	Detail
+ 5.2	Install Hot Mix Type A					\$117,018.05	<input checked="" type="checkbox"/>	Detail
+ 7.1	Furnish 10 Inch PVC Materials					\$89,660.73	<input checked="" type="checkbox"/>	Detail
+ 7.2	Excavate-Install-Backfill 10 Inch P					\$111,403.37	<input checked="" type="checkbox"/>	Detail
+ 8.2	Furnish & Install 24 Inch PVC					\$103,388.90	<input checked="" type="checkbox"/>	Detail
+ 11.2	Subcontract Rebar					\$42,000.00	<input checked="" type="checkbox"/>	Plug
+ 12.1.1	Furnish Retaining Wall Material					\$25,719.65	<input checked="" type="checkbox"/>	Detail
+ 14.1.2	Raw Materials Tanks					\$244,383.14	<input checked="" type="checkbox"/>	Detail
+ 14.2.1	Install Heating System					\$92,662.73	<input checked="" type="checkbox"/>	Detail
+ 14.2.3	High Pressure Pumps					\$18,778.57	<input checked="" type="checkbox"/>	Detail
+ 14.3.2	Install Cooling Columns					\$47,669.50	<input checked="" type="checkbox"/>	Detail
+ 17.2	Concrete Reinforcement					\$1,500.00	<input checked="" type="checkbox"/>	Plug
+ 17.3	Cast in Place Concrete					\$3,500.00	<input checked="" type="checkbox"/>	Plug
+ 17.4	Concrete Masonry Units					\$2,900.00	<input checked="" type="checkbox"/>	Plug
+ 17.5	Paneling					\$2,100.00	<input checked="" type="checkbox"/>	Plug
+ 17.6	Wood Doors					\$1,000.00	<input checked="" type="checkbox"/>	Plug
+ 17.7	Wood Flooring	09640	1.00	Lump Sum	\$1,800.00	\$1,800.00	<input checked="" type="checkbox"/>	Plug
+ 17.8	Office Furniture	12510	1.00	Lump Sum	\$2,100.00	\$2,100.00	<input checked="" type="checkbox"/>	Plug
+ 17.9	Fire Protection Sprinkling	15300	1.00	Lump Sum	\$3,300.00	\$3,300.00	<input checked="" type="checkbox"/>	Plug
+ 17.10	Interior Luminaires	16510	1.00	Lump Sum	\$3,400.00	\$3,400.00	<input checked="" type="checkbox"/>	Plug
Σ						\$0.00		
26						\$4,830,378.06		

Filter Editor

And

[Is Terminal] Equals Checked

Or

[Cost Source] Equals Plug

[Total Cost (Forecast)] Is greater than 100,000.00

Load

Save

OK

Cancel

Apply

Σ 0

Σ 0.00

Σ \$0.00

26

\$4,830,378.06

✖

[(Cost Source] EQUAL 'Plug' OR [Total Cost (Forecast)] GREATER THAN 100000) AND [Is Terminal] EQUAL True

When modifying a filter, the Filter Editor can be invoked by clicking the Edit Filter button located on the bottom right of the CBS page.

Cost Breakdown Structure (CBS) Register

Drag columns here to group

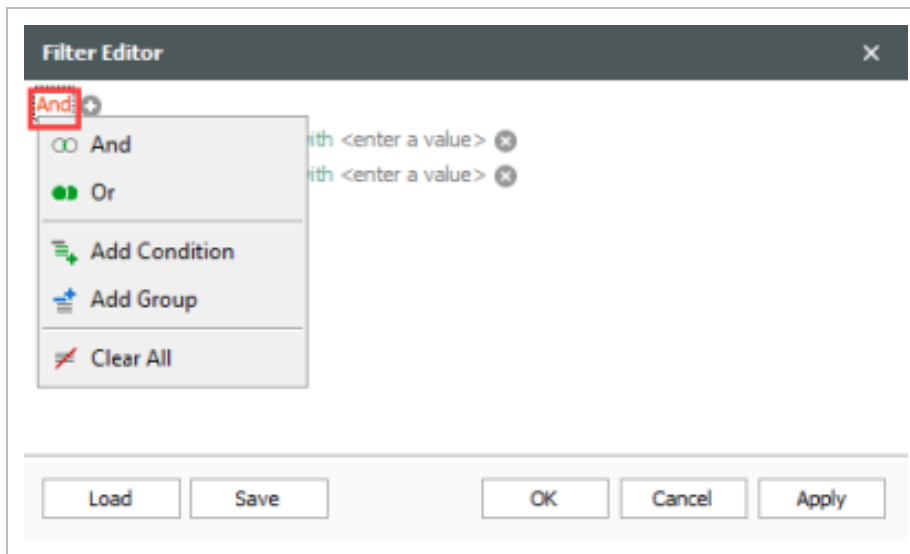
	CBS Position Code	Description	Account Code	Unit of Measure	Total Cost (Forecast)	Unit
→		JOB		Mile	\$5,666,162.55	
+		Prime Bond	7000	Lump Sum	\$45,861.93	
+		Price % Add-On	7000	Lump Sum	\$284,057.38	\$28
+		Direct Cost Escalation	7000	Lump Sum	\$13,933.28	
+		Direct Cost Add-On	7000	Lump Sum	\$99,962.10	
▣	1	SITWORK & ROADWAY		Each	\$2,387,025.45	
+	1.2	Clearing & Grubbing	1110	Acre	\$39,184.97	
▣	1.3	Unclassified Excavation	1122	Cubic Yard	\$158,985.21	
+	1.3.2	Embankment	1122.200	Cubic Yard	\$69,678.93	
▣	1.4	Aggregate Base	1120	Ton	\$692,928.99	
+	1.4.1	Furnish & Haul Base Material	1120.100	Ton	\$519,513.30	
▣	1.5	Asphalt Concrete Hot Mix Type A	1240	Ton	\$1,486,222.28	
+	1.5.1	Furnish & Haul Hot Mix	1240.100	Ton	\$1,374,562.54	
▣	2	WATER & SEWER		Each	\$519,502.60	\$5
Σ	0				\$0.00	
	78				\$5,615,073.91	

✖ [Unit of Measure] EQUAL 'Cubic Yard' OR [Total Cost (Forecast)] GREATER THAN 10000 OR [Account Code] EQUAL '1122'

Edit Filter

STEP BY STEP – FILTER EDITOR

1. In the CBS, hover over the **Unit of Measure** column header for the filter icon to appear.
2. Click the **Filter** icon in the Unit of Measure column to select a filter value; select the desired UoM.
3. Select the **Filter Editor** button, and the Filter Editor data box appears.
 - By default, an **And** statement is created with a **Begins with** operator and a blank value.
4. Select your preferred operator and enter in your preferred value.
5. To add additional **And/Or** statements, select the word **And** in the top left corner. A drop-down appears.



6. Choose which **And/Or** statement to add and then select the **Preferred Operator**.
7. Enter in your **Preferred Value** to complete your additional statement.
8. Click **OK**.
 - Select the **X** to delete a single statement.
9. Select the **And** statement in the top left corner to begin clearing all And/Or statements.
10. From the drop-down, select the option **Clear All**.
11. Once done, select **Apply** and then click **OK**.

2.9.3 GROUP COLUMNS

Sometimes you may want to organize your information into groups. Instead of filtering your information down to one value (e.g., unit of measure = Ton), you can look at your information with a separate group for each value (e.g., a group for Tons, a group for Cubic Feet, etc.).

STEP BY STEP – GROUP COLUMNS

1. From the CBS register, group the Unit of Measure column by dragging it into the grouping area (where it says “Drag columns here to group”).

Cost Breakdown Structure (CBS) Register

Drag columns here to group

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure
JOB		1.00	Lump Sum
+	Prime Bond	1.00	Lump Sum
+	Price % Add-On	1.00	Lump Sum
+	Job Financing	1.00	Lump Sum

- Notice that the cost items in the register are now grouped together by their units of measure, and each group of cost items is subtotalled by costs, hours, quantities, etc.

Cost Breakdown Structure (CBS) Register

Unit of Measure

Unit of Measure	CBS Position Code	Description	Optional Code	Forecast (T/O) Quantity	Unit Cost	Total Cost (Forecast)
<input type="checkbox"/> Acre	1			10.00		\$39,184.97
<input type="checkbox"/> Cubic Yard	19			117,865.76		\$498,571.36
<input type="checkbox"/> Each	29			59.00		\$1,684,854.23
<input type="checkbox"/> LF	1			2,083.95		\$0.00
<input type="checkbox"/> Linear Feet	11			30,248.00		\$459,303.91
<input type="checkbox"/> Lump Sum	23			22.00		\$667,772.98
<input type="checkbox"/> Mile	1			0.00		\$0.00
<input type="checkbox"/> Month	2			2.00		\$10,000.00
<input type="checkbox"/> Pound	3			60,000.00		\$44,408.30
<input type="checkbox"/> Square Feet	9			136,300.00		\$276,594.95
<input type="checkbox"/> Square Yard	2			800,000.00		\$99,954.78
<input type="checkbox"/> Ton	8			160,000.00		\$2,034,391.05

2. To ungroup, right click in the grouping area and select **Clear Grouping**

- The column returns to its original location

TIP

You can group by more than one column to have multiple grouping levels.

2.9.4 SAVED VIEWS

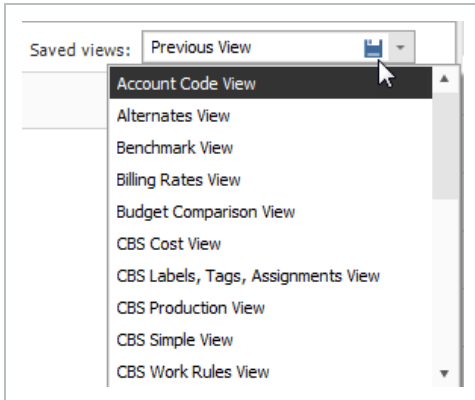
Once you have set up a view the way you like it, you can save the view so you won't have to configure it again later. InEight Estimate also comes with some pre-built views to help you organize the screen the way you want to see it.

Views are accessed from the **Saved Views** menu in the top right portion of a register.

The following steps assume you have made changes to your register view and want to save it for future use.

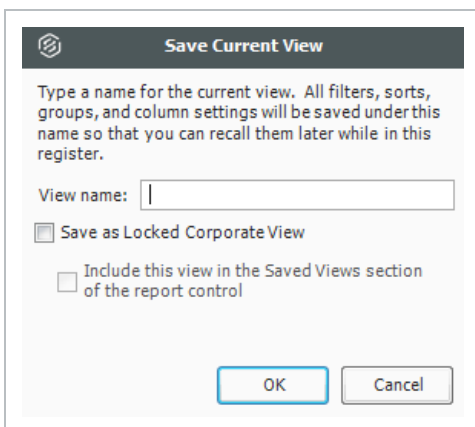
STEP BY STEP – CREATE A SAVED VIEW

1. In the CBS register, click on the **Saved Views** drop-down menu and the Save disc icon appears.



2. Click on the **Save disc** icon.

- The Save Current View window appears



3. Enter the **View Name**, then select **OK**.

- The new view displays in the drop-down menu

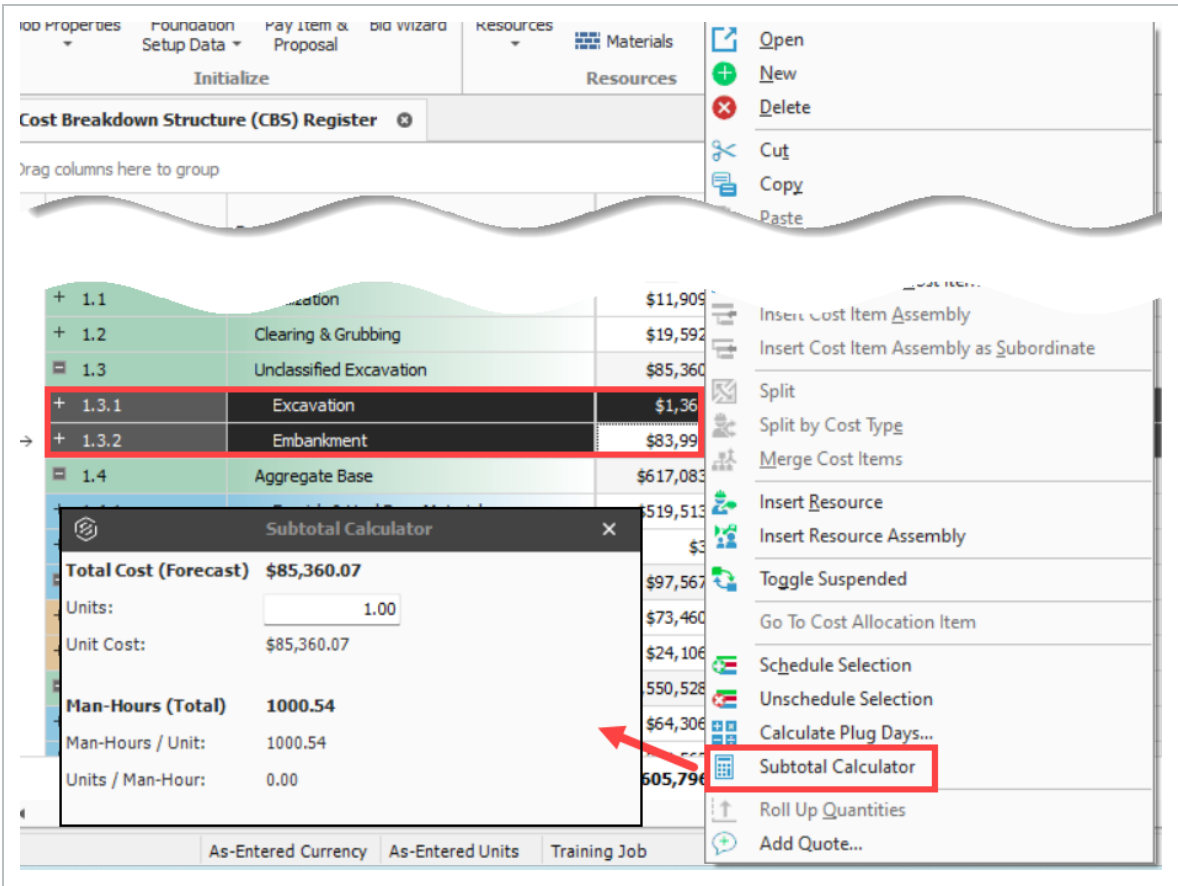
TIP

Saved views are user-specific; you will only see your own saved views when you are logged in.

2.9.5 SUBTOTAL CALCULATOR

You can select multiple cost items and use the Subtotal Calculator to summarize and display Unit Cost, Man-Hours/Unit and Units/Man-Hour. Highlight a cost item in the CBS and right click on a Total Cost

column (e.g., Total Cost (Forecast), Labor Total Cost, Owned Equipment Total Cost, etc.). Select **Subtotal Calculator** from the right click menu, and enter the number of units to use in your calculation.



2.9.6 REGISTER RUNNING TOTALS

You can select multiple rows in a register and see the sum total amount at the bottom of the register. For example, you can hold down the CTRL key and multi-select cost items 2.1.1, 2.2.1, and 2.3.2 in the CBS register, you can see the sum of the three selected cost items toward the bottom row of the register.

Cost Breakdown Structure (CBS) Register

CBS Tree (Filter Hide)

Drag columns here to group

Description	CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Labor Total Cost	Owned Equipment Total Cost	Rented Equipment Total Cost	Supplier Total Cost	Materials Total Cost	Subcontract Total Cost
Job	2	WATER & SEWER	1.00	Each	\$553,789.30	\$553,789.30	\$126,366.37	\$116,635.21	\$3,652.11	\$0.00	\$289,860.00	\$0.00
Prime Bond	2.1	36 Inch RCP Culvert Class III	1,024.00	Linear Feet	\$67.54	\$69,159.49	\$20,073.46	\$13,802.73	\$949.15	\$0.00	\$32,654.00	\$0.00
Price % Add-On	2.1.1	Furnish RCP Materials	1,024.00	Linear Feet	\$23.48	\$24,036.30	\$0.00	\$0.00	\$0.00	\$0.00	\$24,036.30	\$0.00
Job Financing	2.1.2	Excavate RCP Trench	1,888.00	Cubic Yard	\$4.51	\$8,519.59	\$4,865.36	\$5,168.03	\$0.00	\$0.00	\$0.00	\$0.00
Indirect Cost Escalation	2.1.3	Install RCP Pipe	1,024.00	Linear Feet	\$11.74	\$12,017.60	\$6,605.19	\$5,412.41	\$0.00	\$0.00	\$0.00	\$0.00
Direct Cost Escalation	2.1.4	Backfill RCP Pipe	1,587.20	Cubic Yard	\$9.12	\$14,475.59	\$6,504.71	\$4,974.28	\$949.15	\$0.00	\$0.00	\$0.00
Direct Cost Add-On	2.2	30 Inch PVC Force Main (SDR21)	12,000.00	Linear Feet	\$23.18	\$278,113.97	\$54,765.77	\$56,697.60	\$0.00	\$0.00	\$168,772.00	\$0.00
Setwork & Roadway	2.2.1	Furnish 30 inch PVC Materials	3,000.00	Linear Feet	\$18.59	\$55,770.00	\$0.00	\$0.00	\$0.00	\$0.00	\$55,770.00	\$0.00
Water & Sewers	2.2.2	Excavate-Install-Backfill 30 inch	12,000.00	Linear Feet	\$9.28	\$111,403.37	\$54,705.77	\$56,697.60	\$0.00	\$0.00	\$0.00	\$0.00
Structural Concrete & Industrial & Remediation	2.2.3	24 inch PVC Gravity Sewer (SDR21)	3,000.00	Linear Feet	\$9.67	\$29,011.37	\$40,869.88	\$34,371.68	\$2,702.96	\$0.00	\$97,154.00	\$0.00
Commercial & Signing	2.2.4	Excavate 24 inch PVC	3,000.00	Linear Feet	\$3.00	\$9,005.99	\$2,473.89	\$6,031.60	\$0.00	\$0.00	\$0.00	\$0.00
	2.2.4.1	Excavate 24 inch PVC 0-6 ft D...	1,500.00	Cubic Yard	\$1.95	\$2,921.65	\$1,008.84	\$1,703.21	\$0.00	\$0.00	\$0.00	\$0.00
	2.2.4.2	Excavate 24 inch PVC 6-10 ft	3,610.00	Cubic Yard	\$1.74	\$6,293.44	\$1,865.05	\$4,328.39	\$0.00	\$0.00	\$0.00	\$0.00
	2.2.4.3	Furnish & Install 24 inch PVC	3,000.00	Linear Feet	\$12.83	\$38,492.84	\$13,516.94	\$14,174.60	\$0.00	\$0.00	\$9,754.00	\$0.00
	2.2.4.4	Backfill 24 inch PVC	4,520.00	Cubic Yard	\$9.12	\$41,223.34	\$24,219.55	\$14,855.88	\$2,702.96	\$0.00	\$0.00	\$0.00
	2.4	4 Foot Diameter Manhole	16.00	Each	\$3,594.03	\$57,504.47	\$13,717.27	\$11,763.20	\$0.00	\$0.00	\$30,880.00	\$0.00
	2.4.1	Furnish 4 ft Manhole Materials	16.00	Each	\$2,001.50	\$32,024.00	\$0.00	\$0.00	\$0.00	\$0.00	\$32,024.00	\$0.00
	2.4.2	Excavate-Install-Backfill Manhole	16.00	Each	\$1,992.53	\$32,480.47	\$13,717.27	\$11,763.20	\$0.00	\$0.00	\$0.00	\$0.00
Special Risk Allowance												
	3		16,024.00			\$299,779.84	\$13,676.44	\$14,174.40	\$0.00	\$0.00	\$258,980.00	\$0.00
	18					\$553,789.30	\$126,366.37	\$116,635.21	\$3,652.11	\$0.00	\$289,860.00	\$0.00

Estimate calculates subtotals for quantities when the UOMs match. Superior cost items are not included in the subtotals to avoid any double counting in the subtotal.

It is not necessary to export data to Microsoft Excel and run separate calculations to better understand costs of multiple items. The sigma symbol shows in the subtotaled row to indicate it is the total of the selected rows.

RELEVANT LINKS

Video - Working with registers

2.10 FIND FEATURE

The Find feature lets you search across all columns in the register with a single operation. The matching results are then highlighted in yellow. A scroll bar annotation is provided to indicate the rows in the grid containing matches. This lets you easily navigate to the search results in the register.

The Find feature also includes the flexibility to perform more precise searches using various syntax in the search bar. The Find search bar shows the currently selected and total number of search results.

NOTE

If you type in two words, such as **total cost**, the grid considers them as individual conditions and selects records that contain either **total** or **cost**.

Search Syntax	Example
+	To find records that contain both search terms like total cost , type + before the second word.

Search Syntax	Example
	For example: total +cost .
-	Type - to exclude records that contain a specific word, for example: total-cost . You can combine different operators. Use + and - to select records that contain both pay and item , excluding records that contain assignment . For example: pay +item - assignment .
"quotes"	To search for a string that contains a space character, you need to enclose this string in quotation marks. For example: "total cost" .
:	To search against a specific column, type the first letters of the column's display name plus a colon character. For example: optional: unassigned . Now the grid displays records containing unassigned in the optional code column.

If you add another column-specific condition, the grid joins them using the **+** logical operator. Then the record shows the result that matches both options. The same happens when you join a column-specific condition with the one applied to all columns. An example of this search criteria looks like this:
optional: unassigned + "pay item".

STEP BY STEP – FIND FEATURE

1. From the Cost Breakdown Structure (CBS) Register, bring up the Find feature using **CTRL+F**.
2. In the search bar, type in **Materials**.
3. When all the searches are highlighted in yellow, use the **up** or **down** arrows to the right of the search bar to navigate to the next search result in the register.

Drag columns here to group

material

1/13

CBS Position Code	Description	Optional Code	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Subject
+	Indirect Cost Add-On	INDIRECT COST ADD-ON	1.00	Lump Sum	\$0.00	\$0.00	▲
+	Job Management & Equipment	JOB MANAGEMENT & EQUIPMENT	1.00	Lump Sum	\$157,096.28	\$157,096.28	
+	General Expense	GENERAL EXPENSE	1.00	Lump Sum	\$4,200.00	\$4,200.00	
+	Direct Cost Add-On	DIRECT COST ADD-ON	1.00	Lump Sum	\$98,633.23	\$98,633.23	
+ 1	Mobilization	641 0100	1.00	Lump Sum	\$11,909.51	\$11,909.51	
+ 2	Clearing & Grubbing	201 0102	10.00	Acre	\$3,918.50	\$39,184.97	
■ 3	Unclassified Excavation	202 0183	50,000.00	Cubic Yard	\$4.68	\$233,915.81	
+ 3.1	Excavation	3.1	50,000.00	Cubic Yard	\$3.00	\$149,922.88	
+ 3.2	Embankment	3.2	50,000.00	Cubic Yard	\$1.68	\$83,992.94	
■ 4	Aggregate Base	303 5912	45,000.00	Ton	\$15.40	\$692,928.99	
→ + 4.1	Furnish & Haul Base Material	4.1	45,000.00	Ton	\$11.54	\$519,513.30	
+ 4.2	Finegrade Subgrade	4.2	400,000.00	Square Yard	\$0.19	\$75,848.36	
■ 4.3	Install Aggregate Base	4.3	45,000.00	Ton	\$2.17	\$97,567.33	
+ 4.3.1	Place Aggregate Base	4.3.1	45,000.00	Ton	\$1.63	\$73,460.92	
+ 4.3.2	Blue Top Aggregate Base	4.3.2	400,000.00	Square Yard	\$0.06	\$24,106.42	
■ 5	Asphalt Concrete Hot Mix Type A	303 4263	35,000.00	Ton	\$42.62	\$1,491,580.59	

4. To add the Find feature to the register functions header, select the **Options** icon to the far right of the search bar. Then select **Always Expanded**.
5. To search in a specific column only, select the **Options** icon to the far right of the search bar. Then select **Search in Selected Column Only**. Search a specific term in your selected column.
6. To close the Find functionality, click the **Close** icon to the left of the search bar. You can also hold down the **Shift** key and then select the **F3** key to use this feature.

NOTE

A drop-down can be used to see a list of previous searches.

2.11 KEYBOARD SHORTCUTS

2.11.1 NAVIGATING IN A REGISTER

Press	To
Arrow keys	Move one cell up, down, left, or right
Tab	Move to the next cell in the same row
SHIFT+Tab	Move to the previous cell in the same row
Home	Move to the beginning of the cell

Press	To
End	Move to the end of the cell
Page Down	Move to the last row in the register
ALT+Down Arrow	Shows the contents of drop-down list choices for applicable fields
Numpad *	Expands the subordinate leaves of a tree structure for the currently highlighted branch
Numpad + key	Expands the currently highlighted section to display subordinate sections
Numpad - key	Collapses the currently highlighted section to remove the display of subordinate sections
CTRL+Spacebar	Selects and Deselects a row
CTRL+Tab	Toggles the display of open windows
ALT	Activates form menus
ALT+F4	Closes active form
CTRL+G	Opens the Go To Column navigator

2.11.2 NAVIGATING IN A RECORD

Press	To
Left and right arrow keys	Move one character left or right in an editable field
TAB	Move to the next editable field in the record
SHIFT+TAB	Move to the previous editable field in the record
Home	Move to the beginning of the field
End	Move to the end of the field
ALT+Down Arrow	Shows the contents of drop-down list choices for applicable fields
F4	Shows the contents of drop-down list choices for applicable fields
CTRL+Spacebar	Selects and deselects a row
CTRL+TAB	Toggles the display of open windows

Press	To
ALT	Activates form menus
ALT+F4	Closes active form
CTRL+G	Opens the Go To Column navigator

2.11.3 MENU AND KEYSTROKE COMMANDS

All forms have their own set of commands specific to the form. Commands for a form show in the ribbon on contextual tabs (Actions and More Actions) when it is open and the form is active. Click a command on the tab to order it. Some routine commands can be ordered using the standard Windows keystroke combinations (e.g., Ctrl+C, Ctrl+V) or right-click with the mouse when the field is selected.

2.11.4 FUNCTION KEYS IN ESTIMATE

F1	Open to the Help
F2 (grid)	Edit cell value: Enter edit mode for cells that are editable on the grid
F2 (tree list)	Edit cell value: Enter edit mode for cells that are editable on the tree list
F3	Find next: Finds the next value based on the search criteria
F4 (grid)	Show selection register or options in the drop down
F5	Refresh, wherever available
F5	Collapse subordinate Items
F6	Expand subordinate Items

NOTE

In the Account Code Utilization Register, F5 can either refresh or collapse subordinates based on whether an account code is selected.

LESSON 2 REVIEW

1. The _____ is a great way to get a summary view of your bid. You can see totals of direct costs, indirect costs, profit and the overall bid price.
 - a. Job Folder
 - b. Data Map
 - c. System tab
 - d. Resource Rate Register

2. You can group by more than one column to have multiple grouping levels.
 1. True
 2. False

3. Display settings for Units of Measure, Currency, and Colors can be adjusted from the _____ tab.
 - a. Setup
 - b. Estimate
 - c. System
 - d. Help

LESSON 2 SUMMARY

As a result of this lesson, you can:

- Navigate the InEight Estimate system interface
- Navigate system settings
- Manage columns in InEight Estimate registers

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LESSON 3 – LIBRARY SETUP

LESSON DURATION: 60 MINUTES

LESSON OBJECTIVES

After completing this lesson, you will be able to use the following forms and explain their purpose:

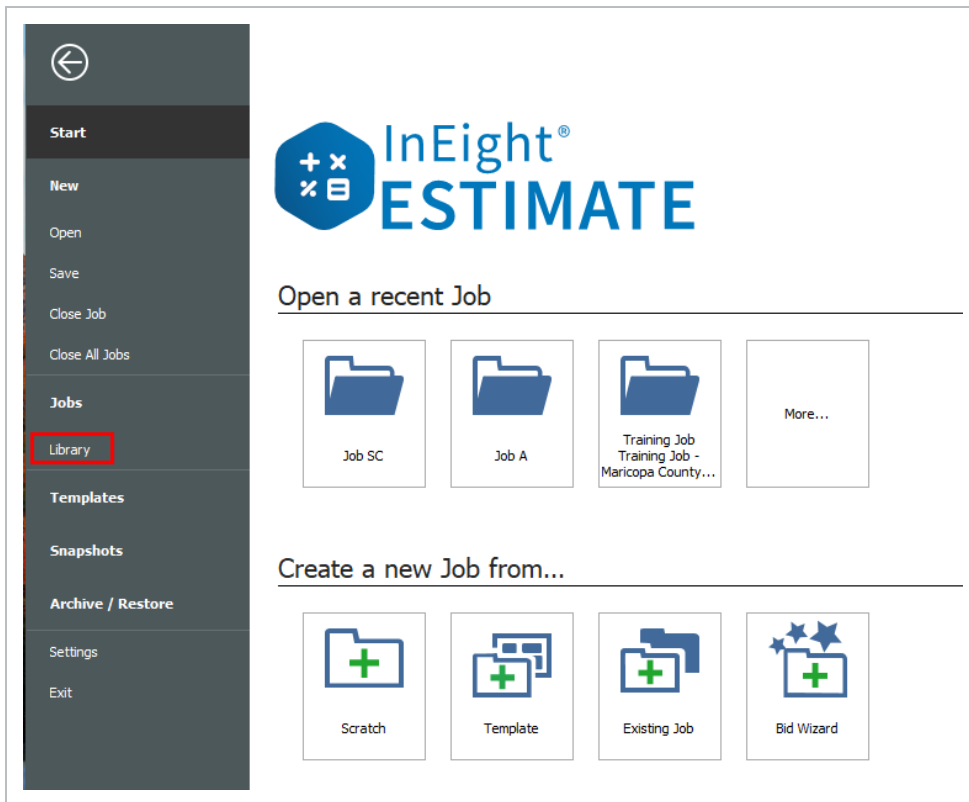
- Library Job Properties
- Library Foundation Setup Data Register
- Library Resource Rate Register
- Library Assembly Register

LESSON TOPICS

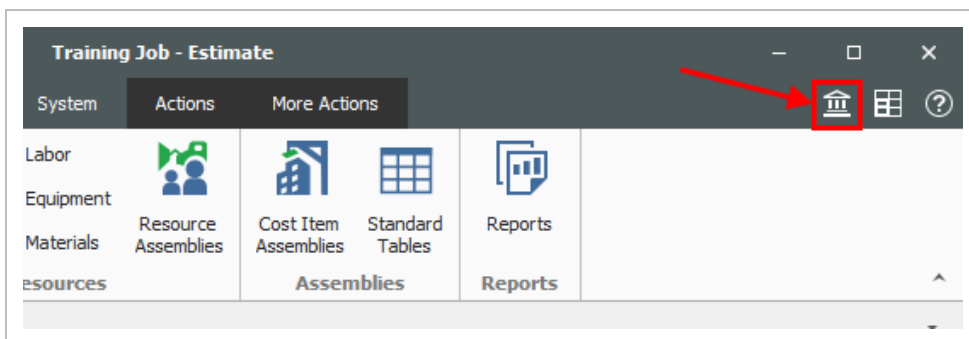
3.1 LIBRARY OVERVIEW

The Library is where you set up and maintain master information that imports into your projects, including resource rates, tags, units of measure, cost item assemblies, and master breakdown structures. It is also where security roles and permissions are configured.

You access the Library from the Backstage view in Estimate. Click on the **Library** link to open.



You can also access the Library by clicking on the Library icon, when on the InEight Estimate landing page.



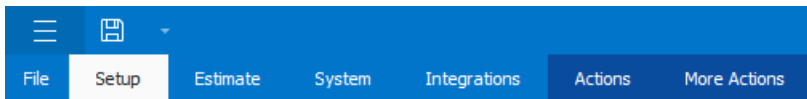
When the Library opens, you see ribbons available under the main menu tabs. Each Menu tab has unique sections which hold the necessary forms. In this lesson you will learn about each tab and their components.

3.1.1 LIBRARY TABS

The Library has four tabs which organizes the forms under sections. The tabs are:

- Setup
- Estimate
- System
- Integrations

The Actions and More Actions tabs appear when you open a register and contain functions for the register you have active. .



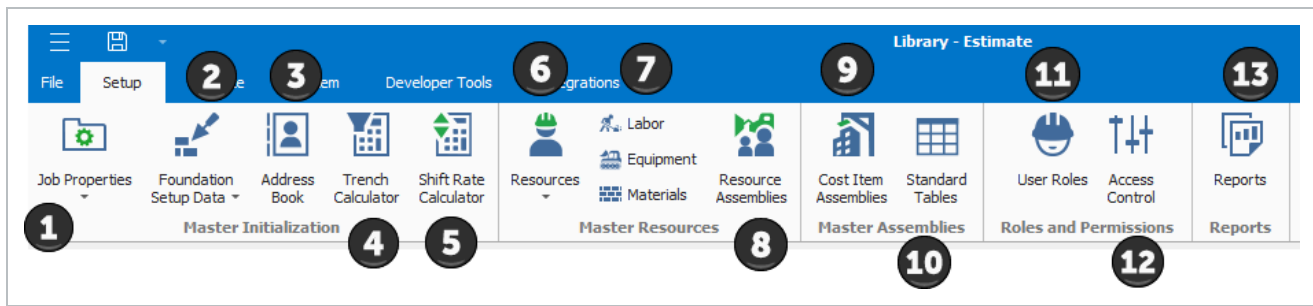
3.1.1.1 SETUP TAB

Overview - Setup Tab

Name		Description
1	Job Properties	The job properties maintained in the library will serve as the default settings for any new estimate that is created from scratch. When creating a new job it will inherit all the job properties set in the master library.
2	Foundation Setup Data	A master set of account codes, tags, and units of measure. When a new folder is created, the master set is automatically copied from the Library to the new folder.
3	Address Book	Used to store and maintain all information pertaining to the companies with whom you work and contact regularly (subcontractors, vendors, architects, etc.).
4	Trench Calculator	Stores and maintains common trench configurations that are used from project to project.
5	Shift Rate	Allows you to set up shift rate configurations that you can access at the

Overview - Setup Tab (continued)

Name		Description
	Calculator	project level.
6	Resources	Opens the Library Resource Rate Register where you can create and edit all resources and resource cost details available for import into your projects.
7	Most Used Resources	For quick access to the Labor, Equipment and Materials tabs of the Master Resource Rate Register.
8	Resource Assemblies	Takes you to the Library Resource Assembly Register where you can set up resource assemblies to import into individual projects.
9	Cost Item Assemblies	Cost Item Assemblies are predictive models to quickly and accurately estimate elements of a job that can be repetitive in nature on the job or from job to job.
10	Standard Tables	The Standard Tables are used to create and/or list job-level table data that is accessible by any of the Cost Item Assemblies that exist in a job. The Standard Table Record allows the user to create and or modify a Table record. The Standard Table Register lists all the job level tables created / available in the project.
11	User Roles	Opens the Register where you assign users to a role which can include the forms, tabs and menu commands to which each role has access. The user names that are used when setting up your User Profiles come from Active Directory, and they are the user names that each user uses when logging onto his/her personal computer.
12	Access Control	Allows you to customize your system permissions by restricting destinations or commands that only designated roles should have access to.
13	Reports	Opens the Reports window, where you can access all system reports and configure the default report settings.



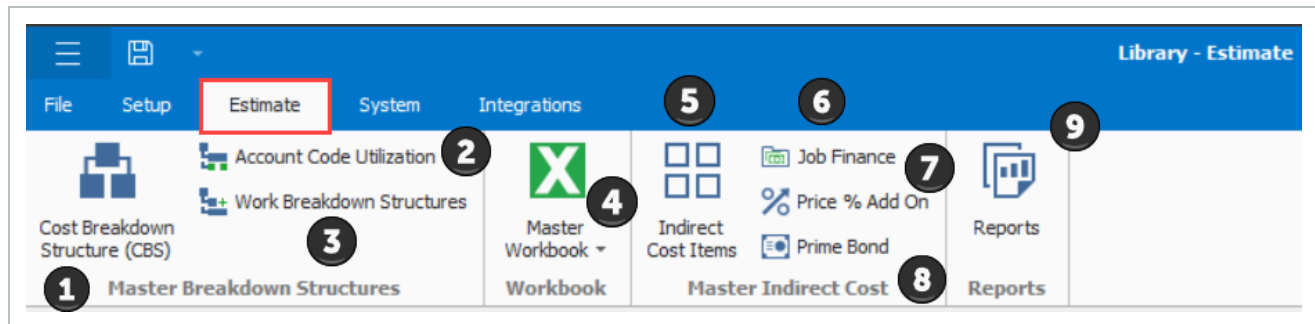
3.1.1.2 ESTIMATE TAB

Overview - Estimate Tab

Name		Description
1	Cost Breakdown Structure (CBS)	Opens the Library Cost Break Structure register, where you can define the CBS that will automatically import when a new project is created.
2	Account Code Utilization	Used to roll estimate line items into an account code hierarchy and benchmark against historical projects in a way that is consistent across projects.
3	Work Breakdown Structures	Opens the Library Work Breakdown Structure register, where you can define additional Work Breakdown Structures that will automatically import when a new project is created.
4	Master Workbook	Opens the master Microsoft Excel template which will be embed into each new estimate job folder. The cells in the embed excel workbook can be linked to send information to or from InEight Estimate Fields.
5	Indirect Cost Items	Takes you to the Library Cost Breakdown Structure Register where you can edit and define indirect cost items.
6	Job Finance	Takes you to the Library Cost Breakdown Structure Register where you can edit the Job Financing cost item.
7	Price % Add On	Takes you to the Price % Add On record, where you can define the price % add to be included in the Library CBS.
8	Prime Bond	Opens to the Library Prime Bond record where you can define the bond tables that will import automatically when a new project is created.

Overview - Estimate Tab (continued)

Name	Description
9 Reports	Opens the Reports window, where you can access all system reports and configure their report settings.



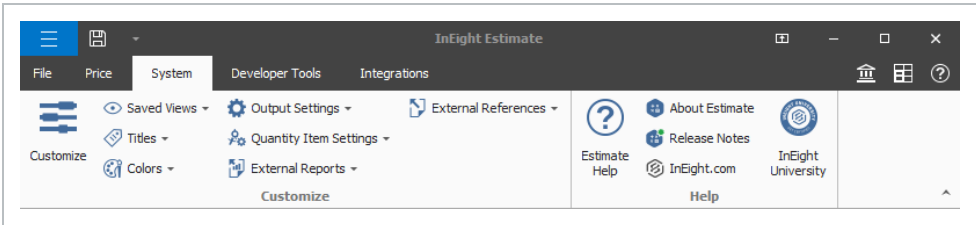
3.1.1.3 SYSTEM TAB

Overview - System Tab

Name	Description
1 Customize	Window to customize the field titles that are displayed throughout various screens in the system, including all cost category titles, user-defined Tags, and more.
2 Saved Views	Allows you to save your views onto a disk or load from a disk.
3 Titles	Allows you to save titles onto a disk or load from a disk.
4 Colors	Allows you to save your colors onto a disk or load from a disk.
5 Output Settings	Allows you to save your output settings onto a disk or load from a disk.
6 Quantity Item Settings	Save your mapped quantity item source settings to your computer. You can then load the saved mapped settings into your Quantity Item Sources Register.
7 External Reports	Menu to not only generate reports created by Estimate, but also to open programs, folders, documents, reports, or Internet resources with the associated program.

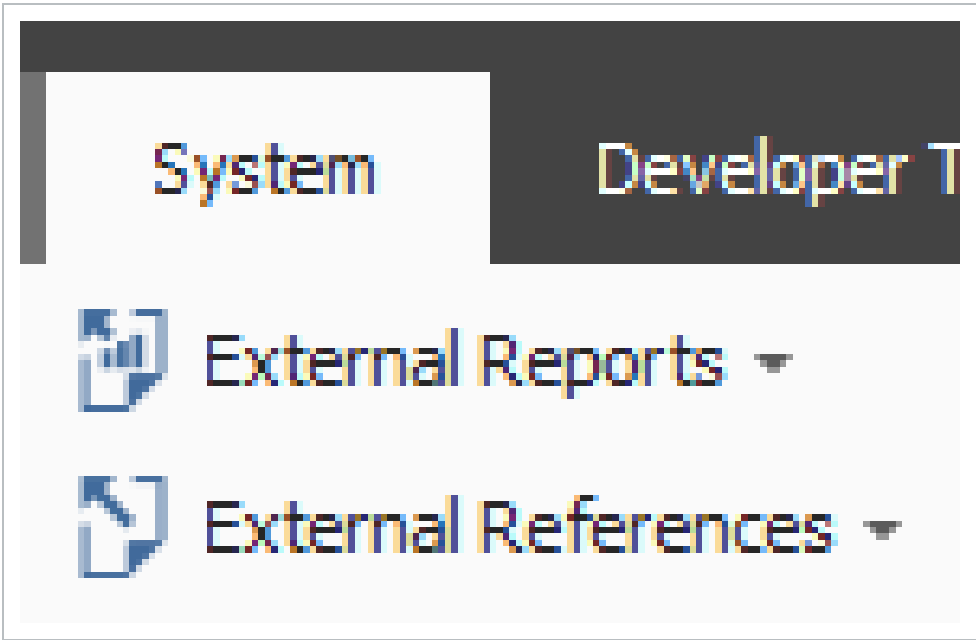
Overview - System Tab (continued)

Name		Description
8	External References	Allows you to open programs, folders, documents, reports, or Internet resources with the associated program.
9	Help Section	Offers you links to Estimate’s general Help menu, information about Estimate (i.e., version number, system information, tech support, etc.), What’s New in the new version, and InEight’s external website.

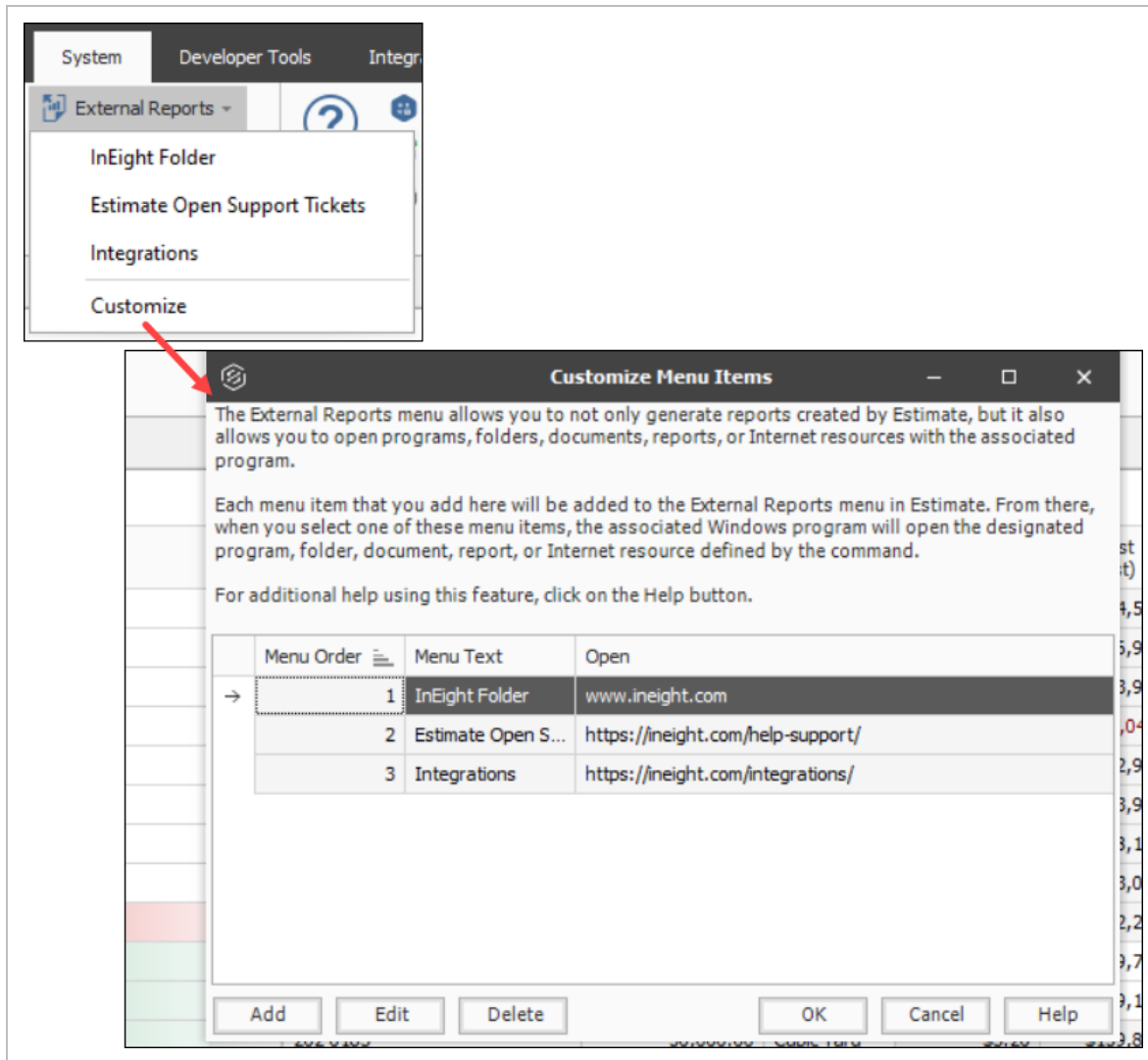


EXTERNAL REPORTS

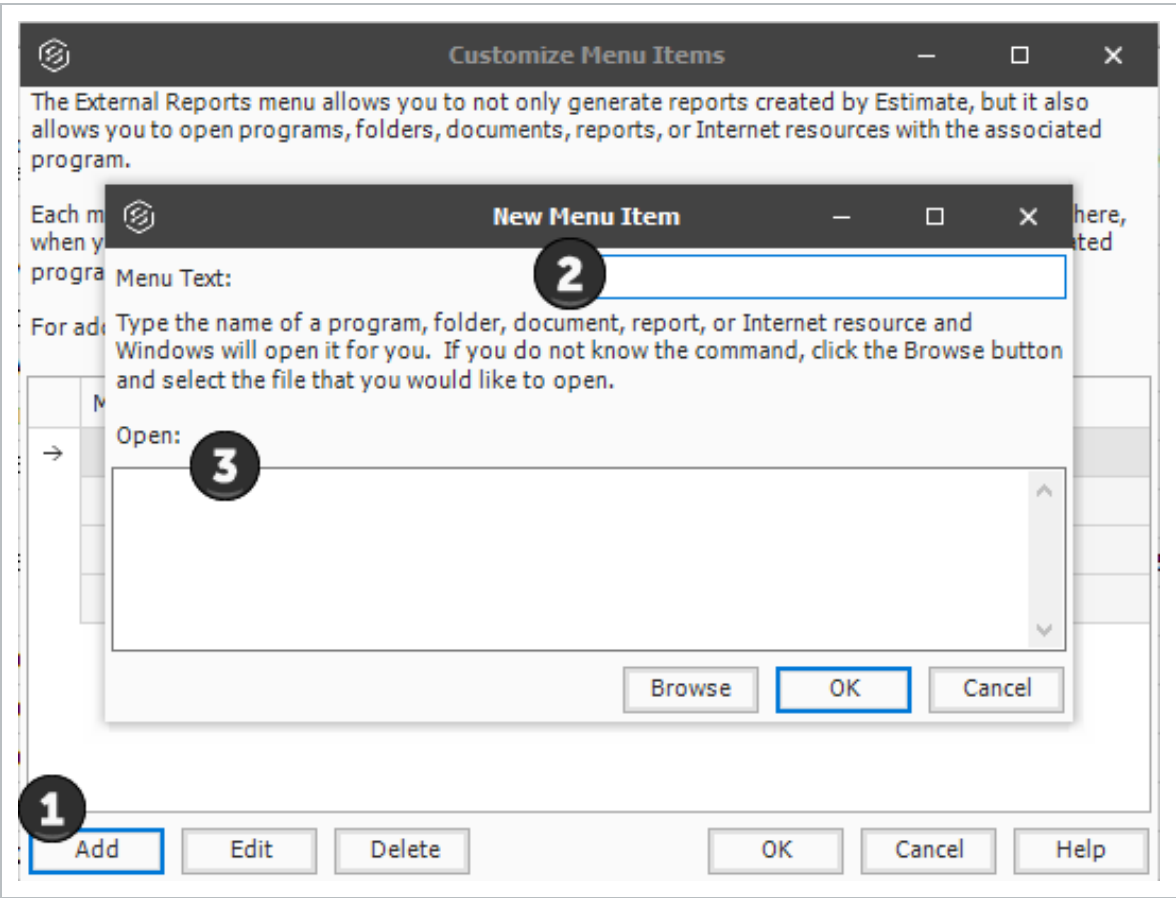
The External Reports menu lets you generate reports created by Estimate, and also lets you open program files, folders, documents, or other internet resources.



Each menu item can be added to the External Reports menu. Upon selecting one of the menu items, the associated program, file, folder document or URL will open, as defined by the command entered in the Open column.



To add a new menu text, first select the **Add** button and enter in a name in the **Menu Text** field, then type in the location of the new Menu text under the Open field.



TIP

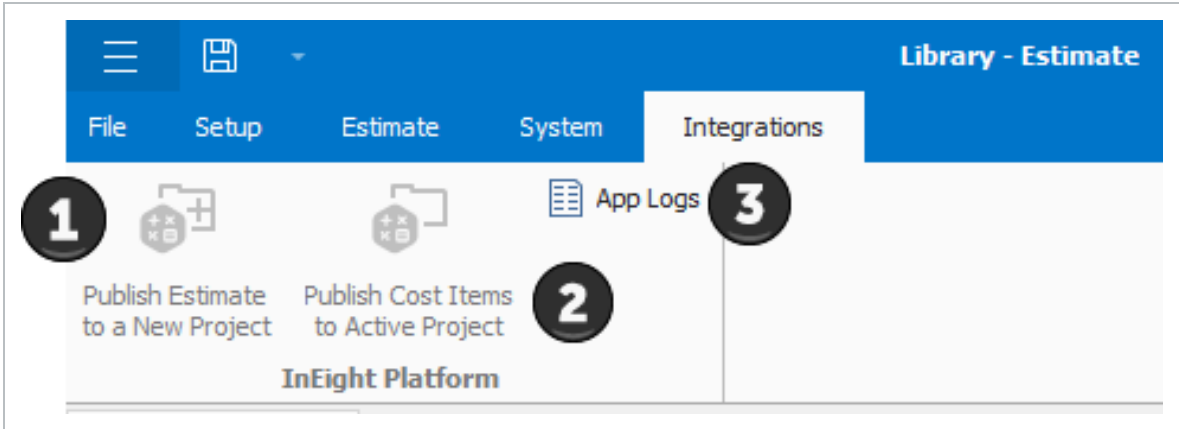
Customized Job Folder Tags match the view of the fields in the Job Properties form.

The screenshot shows two windows. The 'Customize' dialog box is in the foreground, with the 'Titles' section selected. It contains a list of 'User Tag' fields (User Tag 1 to User Tag 24). A red box highlights 'User Tag 1' with a circled '4', and another red box highlights 'Tag 1' with a circled '3'. The 'System' menu item is highlighted with a circled '1', and the 'Customize' button is highlighted with a circled '2'. In the background, the 'Job Properties' form is visible, showing a 'Job Folder Tags' section with a table. A red arrow points to the 'Field' column of the table, which lists 'TEST 1L', 'Tag 1', 'Tag 2', and 'Tag 3'.

3.1.1.4 INTEGRATIONS

Overview - Integrations Tab

Name		Description
1	Publish Estimate to a New Project	Lets you publish an estimate job to a new project. This requires the installation of the data provider plug-in.
2	Publish Cost Items to Active Project	Lets you publish cost items to an active project. This requires the installation of the data provider plug-in.
3	App Logs	Lets you open the Estimate application logs in Project Suite, view log details, and export to Excel.



APP LOGS

The InEight Project Suite App Log lets you drill down to the Detail level which helps you find, analyze and solve application errors.

[Export to excel](#)

Level	Time	Domain	Area	Message	ExceptionMessage	ExceptionType	Route	CorrelationId
Details	Error	2023/11/28 11:21:18 AM	HDDesign	Design	EntityChange -> Publish NoMessageTargetsException:	No ESB subscriptions exist that match top...	..ng.NoMessageTargetsException	0b1c7752-578f-4e12-b02b-c0d8fa4d148d
Details	Error	2023/11/28 11:10:53 AM	HDDesign	Design	EntityChange -> Publish NoMessageTargetsException:	No ESB subscriptions exist that match top...	..ng.NoMessageTargetsException	94f6c0a9-36b9-4696-a07c-08d459262
Details	Error	2023/11/28 9:46:24 AM	HDDesign	Design	EntityChange -> Publish NoMessageTargetsException:	No ESB subscriptions exist that match top...	..ng.NoMessageTargetsException	12cac03b-70ea-4808-9330-3d57b4b31
Details	Error	2023/11/28 9:45:44 AM	HDDesign	Design	EntityChange -> Publish NoMessageTargetsException:	No ESB subscriptions exist that match top...	..ng.NoMessageTargetsException	205bcb4b-fa41-428b-b9cd-9270e460be
Details	Error	2023/11/28 8:26:02 AM	HDDesign	Design	EntityChange -> Publish NoMessageTargetsException:	No ESB subscriptions exist that match top...	..ng.NoMessageTargetsException	2c9a0ea7-e898-4512-97b8-57a194732
Details	Error	2023/11/28 8:16:04 AM	HDDesign	Design	EntityChange -> Publish NoMessageTargetsException:	No ESB subscriptions exist that match top...	..ng.NoMessageTargetsException	24b8d4e1-982b-4c17-894d-d05851b31
Details	Error	2023/11/28 8:06:00 AM	HDDesign	Design	EntityChange -> Publish NoMessageTargetsException:	No ESB subscriptions exist that match top...	..ng.NoMessageTargetsException	30d6c54c-2581-44fd-aa1c-2341bbcf9a
Details	Error	2023/11/28 7:56:01 AM	HDDesign	Design	EntityChange -> Publish NoMessageTargetsException:	No ESB subscriptions exist that match top...	..ng.NoMessageTargetsException	5d9f9a27-f3d8-417e-ab07-e4b5120e36
Details	Error	2023/11/28 7:49:44 AM	HDDesign	Design	EntityChange -> Publish NoMessageTargetsException:	No ESB subscriptions exist that match top...	..ng.NoMessageTargetsException	432e359a-4e04-4040-b5df-f6470a650f0
Details	Error	2023/11/28 7:43:58 AM	HDDesign	Design	EntityChange -> Publish NoMessageTargetsException:	No ESB subscriptions exist that match top...	..ng.NoMessageTargetsException	c16d4150-6eecc-4f82-b2c7-14d2d891770c

InEight Project Suite App Logs - #42329000

Level: **Error**

Timestamp: 2023-11-28 11:21:18 -0700 [Received: 2023-11-28 11:21:18 -0700]

Domain: HDDesign

Area: Design

CorrelationId: 0b1c7752-578f-4e12-b02b-c0d8fa4d148d [Browse Chain](#)

Expires: 2023-12-13 11:21:18 -0700

Machine: pd1sdwk000INM

Message

EntityChange -> Publish NoMessageTargetsException:

InEight.Platform.Messaging.NoMessageTargetsException

No ESB subscriptions exist that match topic=DesignCostItem, workType=EntityChange, sourceDomain=Design

```

at InEight.Platform.Messaging.ESBPublisher.<PublishWorkMessageAsync>d__10.MoveNext()
--- End of stack trace from previous location where exception was thrown ---
at System.Runtime.CompilerServices.TaskAwaiter.ThrowForNonSuccess(Task task)
at System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDebuggerNotification(Task task)
at System.Runtime.CompilerServices.TaskAwaiter.ValidateEnd(Task task)
at InEight.Design.Common.BusinessLogic.Services.EntityChangeService.<Publish>d__3.MoveNext()
ice.cs:line 81

```

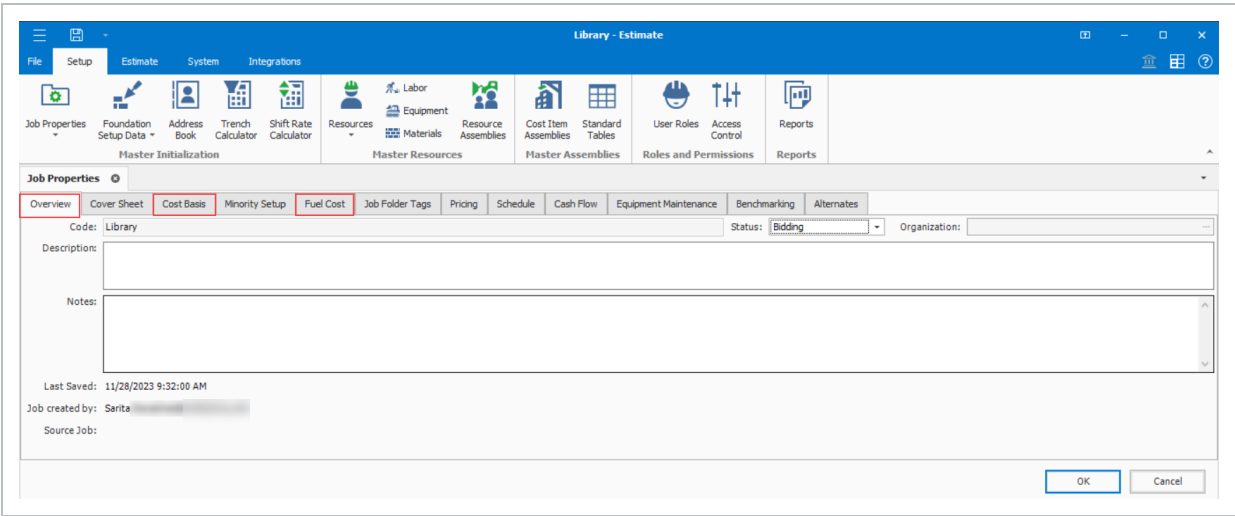
3.2 LIBRARY JOB PROPERTIES

The Library Job Properties form serves as a template for new jobs. Some of the tabs on the Library Job Properties form hold basic settings that will require a default selection which will apply to all new jobs created from scratch. Time can be saved when utilizing Library Job Properties, because the data and settings you fill out will be automatically imported into a new job. Once imported, these settings can be changed at the job level if necessary.

It may be helpful to complete the following tabs / fields at the Library level:

- **Overview Tab Notes Field:** Filling out the Notes section at the Library level would be helpful for any instructions or reminders that you want to display on all projects' Job Properties form. For example, "Always double check currency exchange rates"
- **Cost Basis Tab:** Shift arrangements may or may not be standard across all projects, as well as wage rates and scales. The cost basis default rules should be established within the library.
- **Fuel Cost Tab:** Entering a default fuel cost here will factor with the utilization of your equipment

to be included in your equipment rates



RELEVANT LINKS

[System settings options](#)

[Archive and restore jobs](#)

[Video - Library job properties](#)

[Video - Backstage view](#)

3.3 LIBRARY ADDRESS BOOK

Estimate's vendor and contact information in the address book register integrate with InEight Platform's vendor and contact master data libraries.

Vendors and contacts are created and maintained in Platform's master data library as a single source repository of vendor and contact data.

Master data libraries / Vendors

VENDORS

VENDOR TYPES

ID

Name

Alternate name

Type

<input type="checkbox"/>	0010118762	1123910 B.C. Ltd	Sun Star Shuttle	2001
<input type="checkbox"/>	0010105600	1127571 B.C. Ltd	Sparrow Excavation and Fencing	2001
<input type="checkbox"/>	0010069102	112792 Canada Inc	DBA AMJ Campbell Van Lines	2001
<input type="checkbox"/>	0010106779	1128354 Alberta Ltd	Yvolution Metal Works	2001
<input type="checkbox"/>	0010097951	1135391 Ontario Ltd	DBA Orleans Autopro	2001
<input type="checkbox"/>	0010114422	1138357 Alberta Ltd	Young Contracting	2001
<input type="checkbox"/>	0010111084	1142023 B.C LTD	Barcelo Flame Grilled Chicken	2001
<input type="checkbox"/>	0010092209	1165292 BC Ltd	DBA Hydro Tech	2001
<input type="checkbox"/>	0010006725	1169572 Alberta Ltd	DBA A-1 Portables	2001
<input type="checkbox"/>	0010119746	11754491 Canada Ltd	Synstone	2001
<input type="checkbox"/>	0010102352	1189589 AB Ltd	Fire-Alert SE Edmonton	2001
<input type="checkbox"/>	0010118867	1190475 BC LTD	Vancouver Island Forest & Marine	2001

Library - Estimate

Print

Preview

Export to Excel

Vendors and Contacts

Vendors and Default Quotes

Contacts

Layouts

Delete

Copy

Fill Down

Edit

Merge Vendors

Link Field

Expand / Collapse

Filter

Clear Filter

View Vendors

View Contacts

Infight Platform

Address Book Register

Drag columns here to group

Vendor ID	Vendor Name	Vendor Type	Tax ID	Tax Jurisdiction	Address 1	Address 2	Country / Region	City	State
0010087054	1 Alliance Geomatics LLC	2001	461564451	4803300400	1261A 120th Ave NE		United States Of America	Bellevue	Washington
+ 1 NP - Vendor 2	1 NP - Vendor 2	1 NP Vendor	12345	abc	90th Street		United States Of America	Scottsdale	Arizona
+ 1 NP - Vendor 1	1 Vendor 1	1 NP Vendor							
+ 1 NP - Vendor 1	1 Vendor 1	1 NP Vendor							
0010099994	10X Engineered Materials LLC	2001	824568213	1516913100	1162 Manchester Ave		United States Of America	Wabash	Indiana
0010099994	10X Engineered Materials LLC	2001	824568213	1516913100	1162 Manchester Ave		United States Of America	Wabash	Indiana
0010102449	11032119 Canada Inc	2001	731900882	7001509700	300 Greenbank Road Suite 12		Canada	Ottawa	Ontario
001008991	1105900 Ontario Ltd ea Fire Alert	2001	898821194	7001520100	1-490 Taylor Creek Dr		Canada	Orleans	Ontario
0010106672	1107075 B.C. LTD	2001	728732926	7000238680	15705 Old Richier Pass Road		Canada	Osoyoos	British Colu...
0010097822	1108809 Canada Inc	2003	726543085	7001906500	PRDHARTAddress1	PRDHARTAd...	India	PRDHARTAddress1	Tamil Nadu
0010032404	111008 Canada Inc	2002	103615492	7001565130	6866 McKeown Dr-1		Canada	Greely	Ontario
0010102467	1112004 Ontario Inc	2001	896930377	7001568530	5243 Robert Hogan Lane		Canada	Sealey's Bay	Ontario
0010118762	1123910 B.C. Ltd	2001	708492095	7000301500	1016 Qualls Roost Crt		Canada	Kamloops	British Colu...

The vendor and contact data structure shows a new hierarchy where multiple contacts can be assigned to one vendor.

Address Book Register

Drag columns here to group

Vendor ID	Vendor Name	Vendor Type	Tax ID	Tax Jurisdiction	Address 1	Country / Region	City
0010106779	1128354 Alberta Ltd	2001	863877379	7000147200	Box 516	Canada	Wemy
0010106779	Frank	Matty	Alberta				
0010106779	Tom	Cross	Alberta Ltd				

Country / Region	Primary Email
Canada	Frankmatty@gmail.com
Canada	Tomcross@gmail.com

3.3.1 PRE-EXISTING ESTIMATE DATA

Upon upgrading to version 23.6, address book records show a combined list of both pre-existing Estimate Address Book records and Platform vendors and contacts. Pre-existing Estimate Address Book records are still editable, but Platform records are not. The pre-existing disconnected vendors and





InEight Inc. | Release 25.7

Page 91 of 402

contacts show a red glyph to the left of the Vendor ID column which shows that these records are disconnected from Platform.

Address Book Register

Drag columns here to group

	Vendor ID	Vendor Name
	+	Alpha
	+	Al.Ven1
		Ed-Sub2
	+	Example Vendor 4 DBE

The existing contact records also have a vendor record associated with it. New vendors and contacts must be added via Platform, and changes to any Platform originated records must be modified in Platform. This promotes the use of Platform as the single source of creation and maintenance for vendor master data.

3.3.2 ESTIMATE SPECIFIC DATA

Certain vendor affiliated qualification information required for estimating purposes such as licensed, bonded and insured data, or minority participation, is maintained directly in Estimate only rather than in Platform.

There can be other Estimate vendor and contact data that only exist in Estimate and not in Platform, such as License, Bond, Insurance and Minority Certifications, and Default Quotes.

Address Book Register

Vendor Record

Vendor Details

Vendor ID:

1_NP - Vendor2

Vendor Name:

1_NP - Vendor2

Vendor Type:

1_NP Vendor

Tax ID:

12345

Tax Jurisdiction:

abc

Address 1:

90th Street

Address 2:

Country / Region:

United States Of America

City:

Scottsdale

State:

Arizona

Postal / Zip Code:

85258

Phone Number:

99999999

Fax Number:

963258741

Web Site URL:

Reference Number:

Contacts

Notes

License / Bond / Insurance

Minority Certifications

Default Quotes

☒ Licensed

Licensor:

Jeff Lewis

Class:

A

Identification:

GDIMNDG83

☒ Bonded

Company:

Owens Inc

Agent:

Phil Jones

Phone:

Cost per 1,000:

0.00

☒ Insured

Company:

Evergreen Insurance

Agent:

3.3.3 ADDRESS BOOK LAYOUTS

You can choose between three address book page arrangements, vendors and contacts, vendors and default quotes, and contacts.

File

Setup

Estimate

System

Developer Tools

Integrations

Actions

Library - Estimate

Print

Preview

Export to Excel

Print

Vendors and Contacts

Vendors and Default Quotes

Contacts

Open

Fill Down

Link Field

UnLink Field

Expand / Collapse

Filter

Clear Filter

View Vendors

View Contacts

Delete

Copy

Edit

Workbook

View

InEight Platform

Address Book Register

3.3.3.1 VENDORS AND CONTACTS

Vendors and Contacts are arranged where the vendor is the primary record in the register, and the contacts associated with the vendor are shown as secondary detail records.

File

Setup

Estimate

System

Integrations

Actions

Print

Preview

Export to Excel

Print

Vendors and Contacts

Vendors and Default Quotes

Layouts

Contacts

Open

Delete

Copy

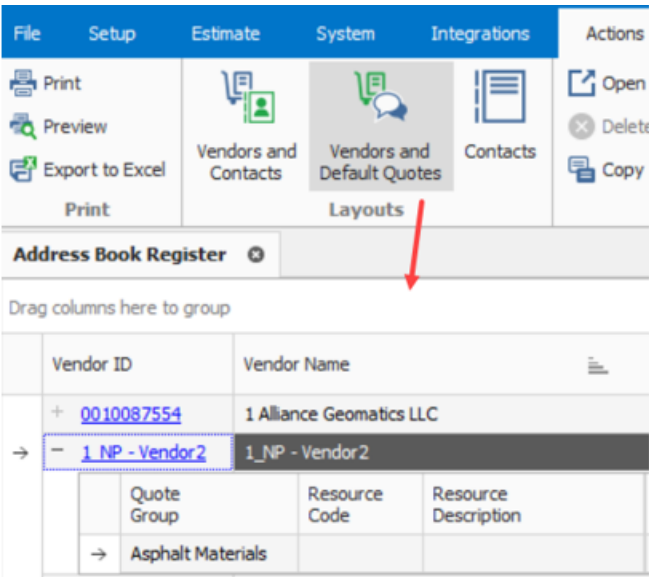
Address Book Register

Drag columns here to group

	Vendor ID	Vendor Name	
→	0010106779	1128354 Alberta Ltd	
	Vendor ID	First Name	Last Name
→	0010106779	Frank	Matty
	0010106779	Tom	Cross

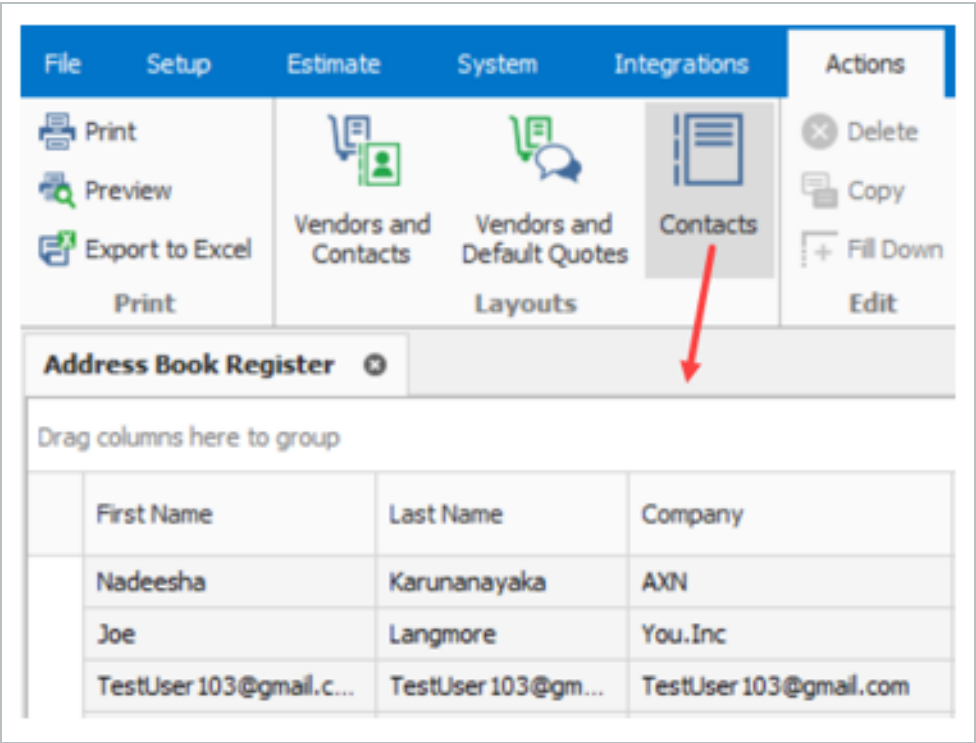
3.3.3.2 VENDORS AND DEFAULT QUOTES

Vendors and default quotes are arranged where the vendor is the primary record in the register, and the default quote group assignments for the vendor are shown as secondary detail records.



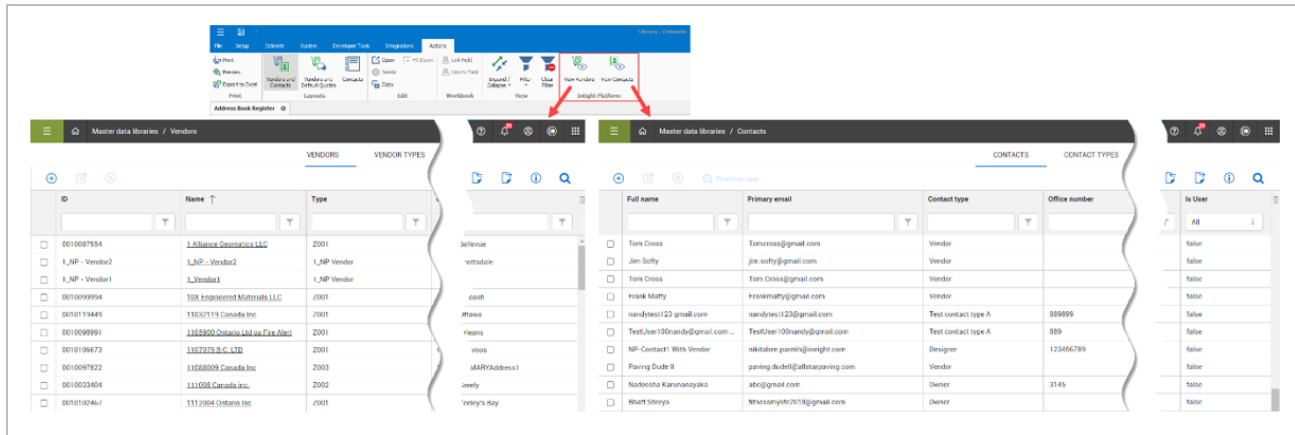
3.3.3.3 CONTACTS

Contacts are arranged where the contacts are shown in a flat list and are not secondary detail records under the Vendor. This layout can be used to search more easily for contacts regardless of their vendor assignment.



3.3.4 VIEW VENDORS AND CONTACTS IN INEIGHT PLATFORM

Select View Vendors or View Contacts to open a new InEight Platform master data vendors and contacts browser.



To view or edit a vendor, click the Vendor ID. The Platform Edit vendor > **Vendor Details** page opens.

The screenshot shows the 'Vendor details' form in the InEight Platform. The form is titled 'Vendor details' and has tabs for 'Vendor', 'Edit vendor', 'VENDOR DETAILS', 'USERS', and 'CONTACTS'. The 'VENDOR DETAILS' tab is active. The form contains several input fields for vendor information.

Field	Value
* ID	0010010622
* Name	Smith and Construction
Alternate name	
Vendor type	Z001
Vendor tax ID	120998877
Vendor tax jurisdiction	7001910900
Status	Available
Default currency	Canadian Dollar

3.3.5 VENDOR AND CONTACT CREATION

You can quickly create ad hoc vendors and contacts via the Quote Register and Record forms.

After you receive vendor quotes and you are ready to enter quote information, it can be an optimal moment to create new vendors and contacts if they are not currently in the Address Book. Creating vendors and contacts on the fly while the vendor quote information is readily available, and then

entering the quote information is more expedient than leaving the quote to create the vendor and contact in Platform. This is especially useful when you have multiple new vendor quotes.

You can create vendors and contacts on the fly in both the Quote Register > **Address Book Register** **Library** and directly from the Quote record.

Quote Register

Quote Register

Quote Record

Drag columns here to group

Description	Quote Status	Vendor	Vendor Name	Contact	Quote Total	Awarded Total
Asphalt Materials	Received	Lewis Concrete -- AA1	Lewis Concrete	<Ad-Hoc Contact>	\$1,115,975...	\$0
Guard Rail Items	Invalid	_PC1 -- _PC1	_PC1	SUB18 -- 1111 test	\$0.00	\$0
Guard Rail Items	Invalid	SUB4	SUB4	SUB4 -- Harry Belefony	\$0.00	\$0
new J-11	Received	SJ-5 -- SJ-5				
Pipe Materials	Received	Ven10				
Pipe Materials	Received	Example Vendor 4 DB				
sa	Received	Example Prime Contra				
Sign Items	Invalid	Example Sub #34 DBE				
Sign Items	Incomplete	[Enter Vendor Name]				
Site work	Received	Civilworks Inc. -- Ven				
test	Received	[Enter Vendor Name]				

Address Book Register - Library

Actions

New

Copy

Expand / Collapse

Filter

Clear Filter

View Vendors

View Cont

Vendors and Contacts

Vendors and Default Quotes

Edit

View

Layouts

InEight Platform

1218-VZ	test		
999999	Robert Roberts	2002	
aa	cc		
AA1	Lewis Concrete		

Quote Record

Quote Register

Quote Record

Header

Description: Asphalt Materials

Vendor: <Ad-Hoc Vendor>

Contact: <Ad-Hoc Contact>

Primary Email:

External Ref.:

For example, when you are in a quote record and need to quickly create a new vendor because the vendor you received a quote from does not yet exist, you can select the **Vendor Quick Add** button, and then enter in the vendor details in the Vendor Record – Library form.

Quote Record

Header

Description: Site work

Vendor: <Ad-Hoc Vendor>

Contact: <Ad-Hoc Contact>

Primary Email:

External Ref.:

Resources

Cost Items

Package

Package	Code	RFQ ID	Quote Group
P1 (Demo,Exav,Grading)			
P2 (Assisted Parking Lot)			
P3 (Paving)			

Vendor Record - Library

Vendor Details

Vendor ID: V187

Vendor Name: Lewis Concrete

Vendor Type: 2004

Tax ID:

Tax Jurisdiction:

Address 1: 125 Maple Ave

Address 2:

Country / Region: United States Of America

City: Phoenix

State: Arizona

Postal / Zip Code: 85256

Phone Number: 480 555 2656

Fax Number:

Web Site URL:

Reference Number:

Quote

Currency: U.S. Dollar

Do Not Use:

Contacts

Notes

License / Bond / Insurance

First Name

Last Name

Address 2

OK

Next >

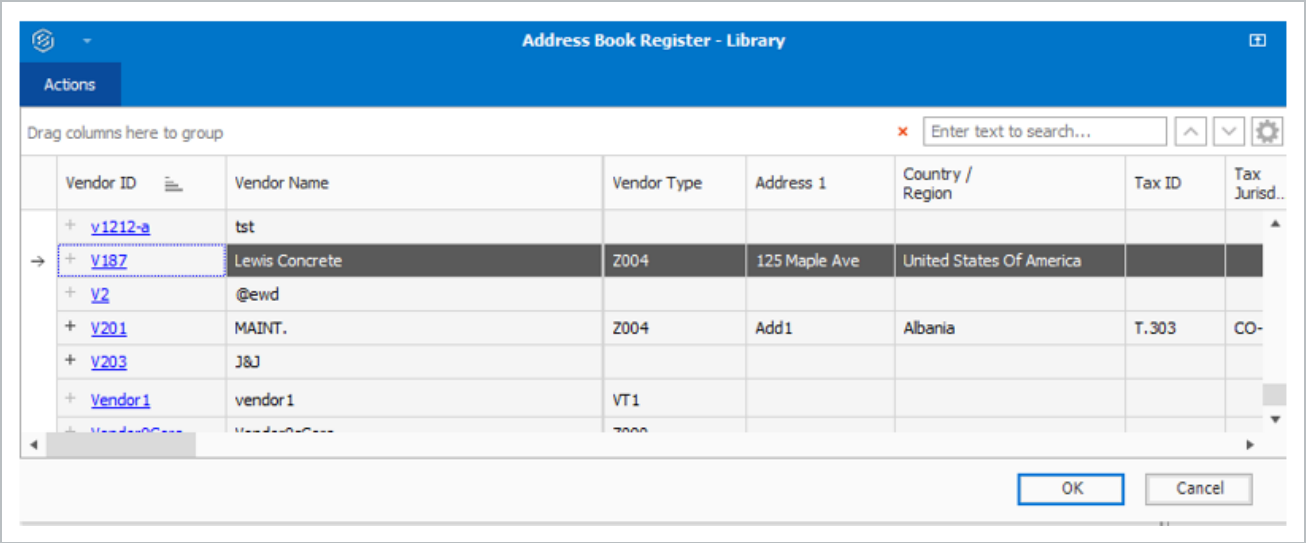
You can also add additional qualification information in the License/Bond/Insurance and Minority Certifications tabs.

Page 98 of 402

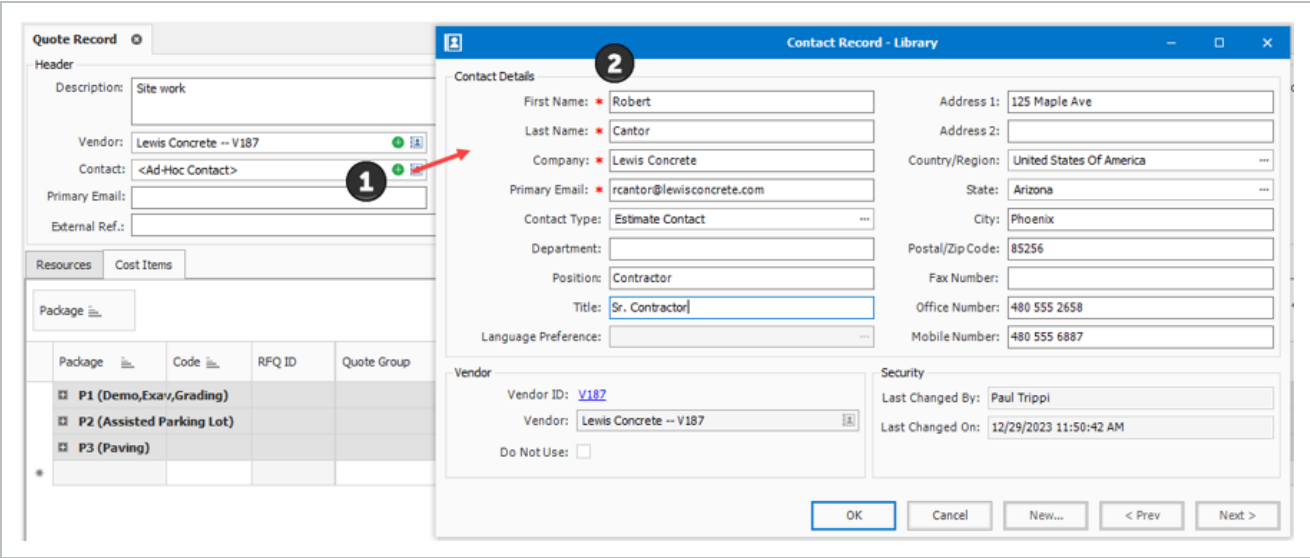
InEight Inc. | Release 25.7

NOTE

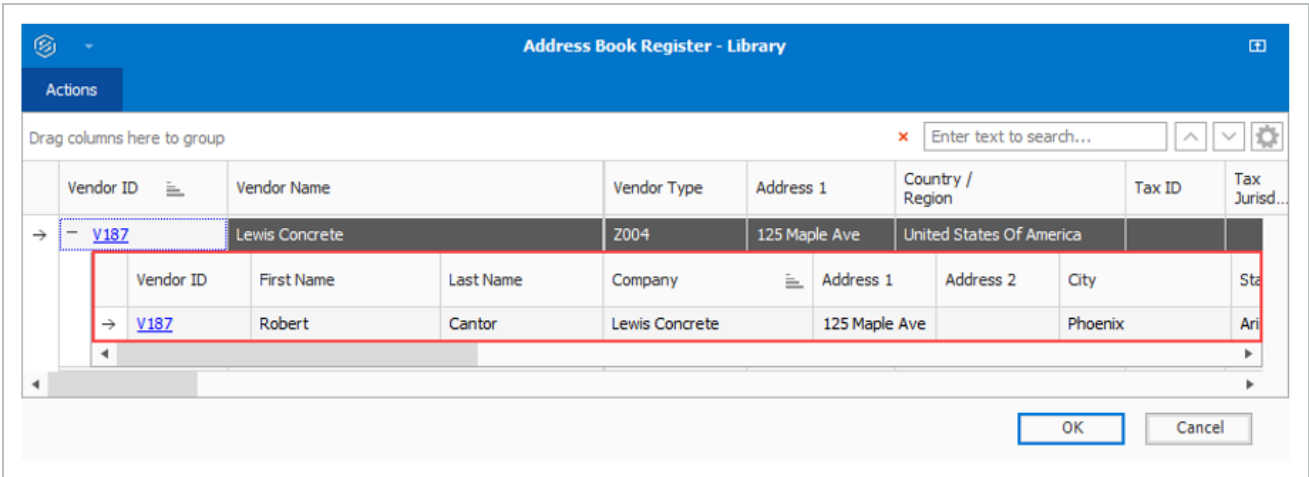
After the vendor is created, it is included in the Library Address Book and can be chosen as a vendor to be used on a quote.



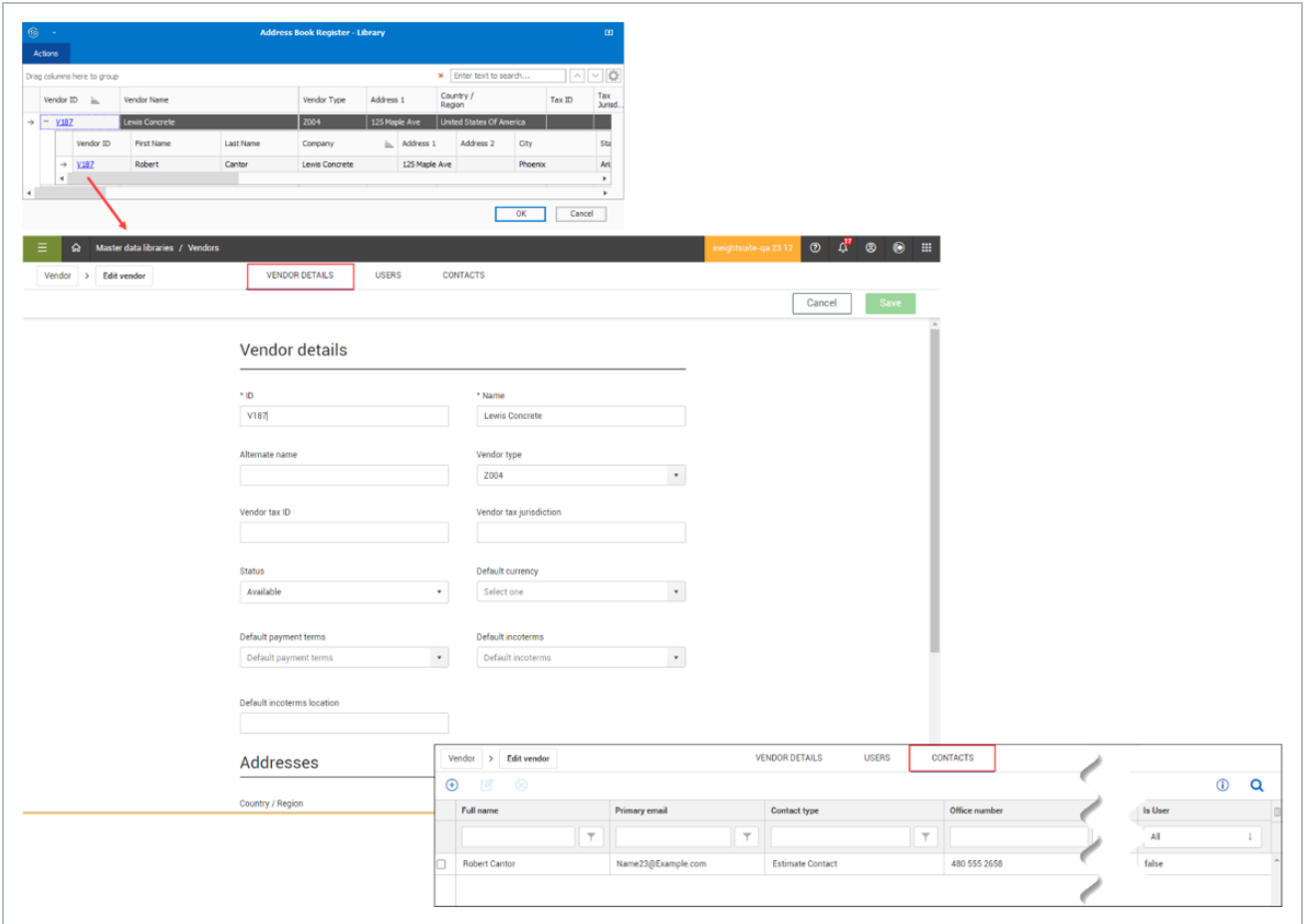
If you have a new contact to add, you can select the **Contact Quick Add** button, and then enter the contact information.



After the contact is created, it becomes associated with the newly created vendor in the Library Address Book.



The vendor and contact information are stored in Platform where it can be easily accessed by selecting one of the vendor ID links in the Library Address Book. The vendor can also be used by other Platform applications.



3.3.6 MERGE AND UPLOAD CONTACTS AND VENDORS INTO PLATFORM

You can manage and retain all vendor information in the Estimate Address Book that are not linked (disconnected) with Platform, including contacts and companies that are referenced in multiple estimates, quotes and RFQs.

Disconnected Vendors and Contacts can be merged with existing Platform vendors and contacts, or they can be uploaded to create new Platform vendors and contacts by navigating to the Library > Setup > **Address Book**. You can also upload new Estimate vendors and contacts into Platform's master data repository.

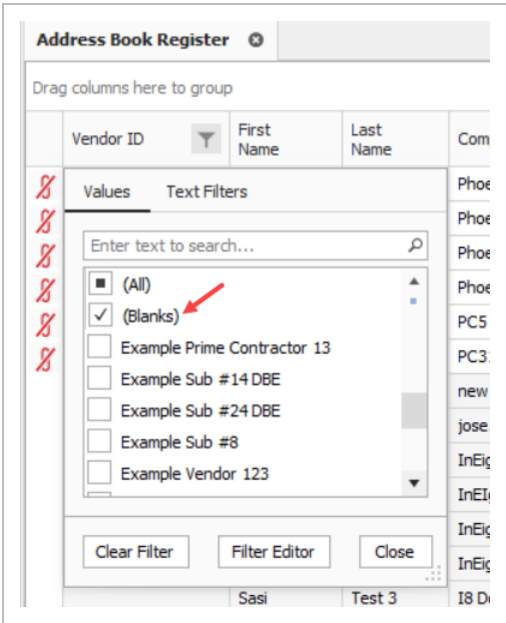
Estimate's process of uploading contacts and vendors into Platform's master data library (as a means for all InEight products to access as a source system of contact and vendor data) not only lets you send this information to Platform, but it provides you with a mechanism to clean up and simplify existing Estimate Address Book data. For example, your current Estimate Address Book might contain many duplicate contacts containing the same first and last name, but with different addresses, emails, or mobile numbers. Merging these records helps administer customer data better so that you can eventually only maintain a single contact or vendor that has the most up to date and most accurate information.

Address Book Register ⓘ				
Drag columns here to group				
	Vendor ID	Company	Vendor	Address 1
⌵		Phoenix Contractors	Example Vendor 1888	100 Tenth Street
⌵		Phoenix Contractors	Example Vendor 1666	100 Tenth Street
⌵		Phoenix Contractors	Example Vendor 5551	100 Tenth Street
⌵		Phoenix Contractors	Example Vendor 222	100 Tenth Street

3.3.6.4 DISCONNECTED CONTACTS AND VENDORS

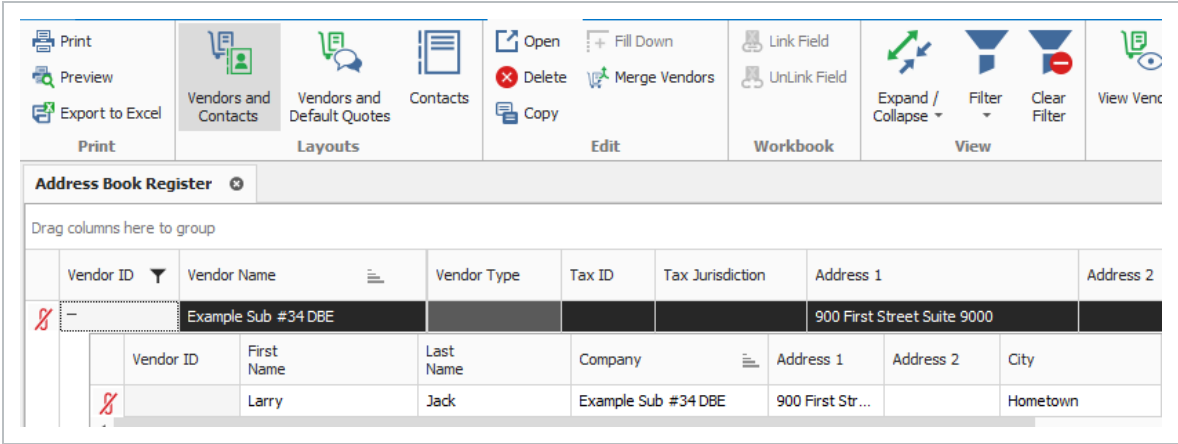
Pre-existing Estimate vendors and contacts that are disconnected from Platform show a red glyph to the left of the Vendor ID column, and only exist in Estimate at this time. To only show the disconnected records, click the column filter in the Vendor ID column, and then select (Blanks). You can either delete the disconnected records or choose to merge or upload them into Platform.

Showing only the disconnected vendors or contacts helps you see the vendors and contacts that are not connected with Platform.



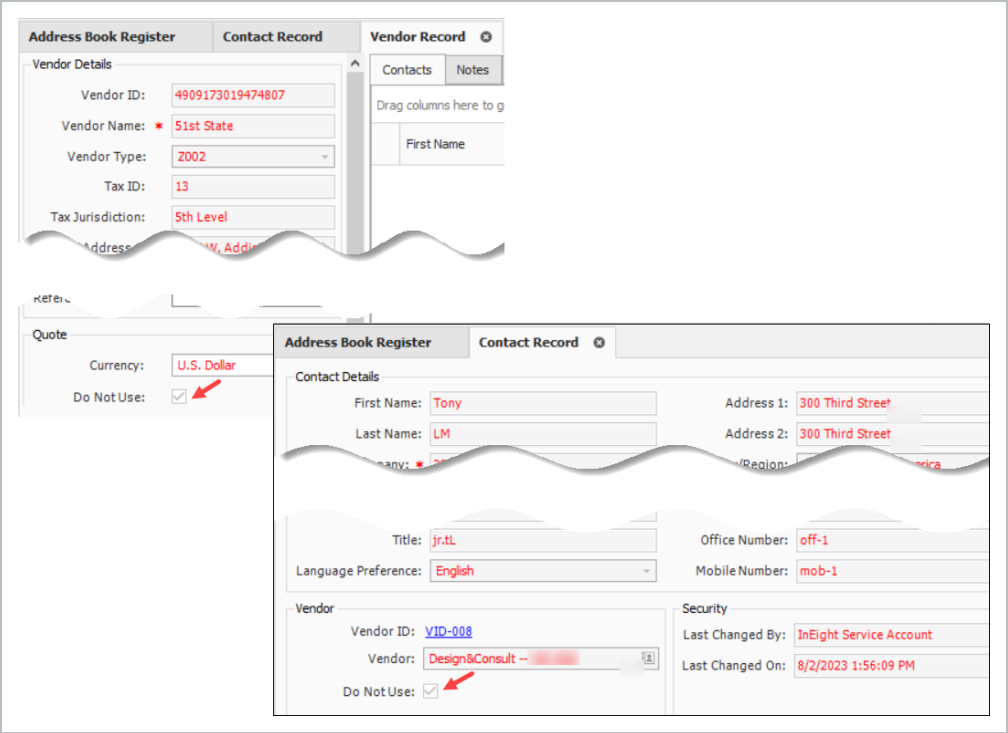
NOTE All new library address book records must be created in Platform.

Vendor and contact ID's that show a blank do not currently have an associated Platform vendor association, as these vendors were originally created in Estimate. These vendors have not been merged into Platform, and therefore have no association with the vendor master data that resides in Platform.

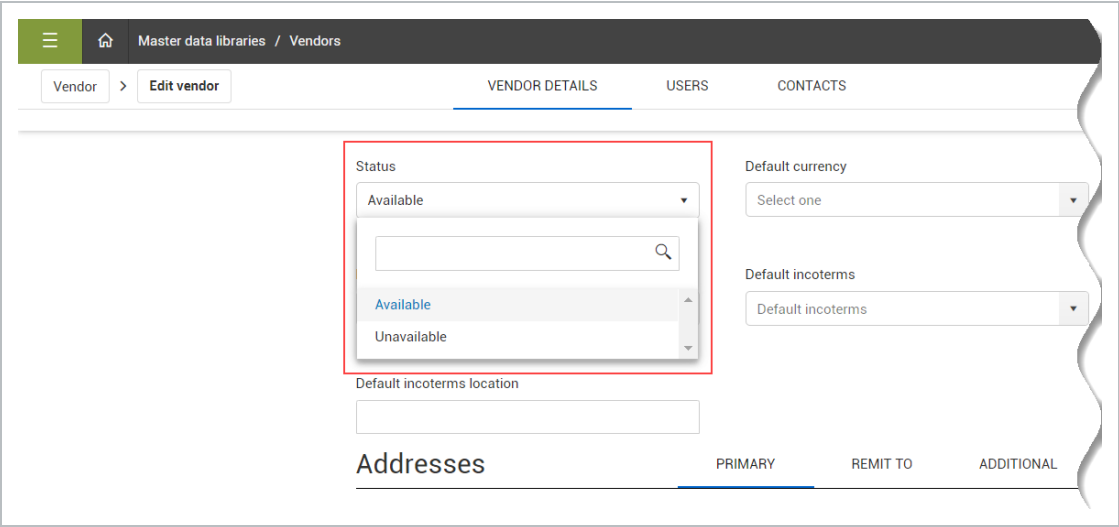


INACTIVE CONTACTS AND VENDORS

You can mark a vendor as *Do Not Use* in a contact record, which indicates the status of the contacts associated vendor, and can only be set in Estimate when vendors are disconnected from Platform. The record changes to red to signify it is inactive and cannot be used, but is not deleted from the system.

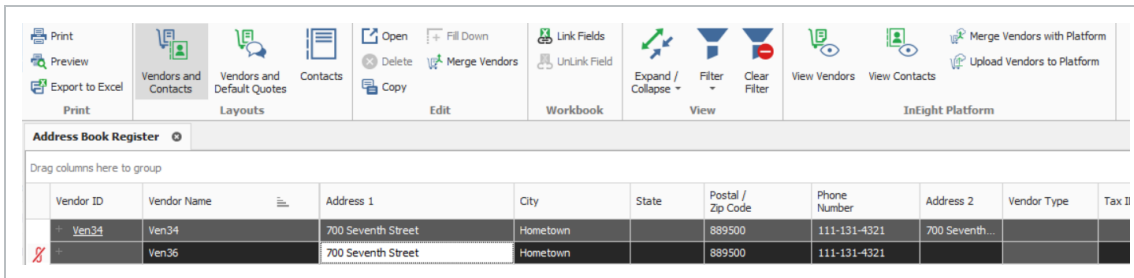


To change the *Do Not Use* status, select the Vendor ID Platform link for the vendor record in Estimate. In Platform, the *Do Not Use* flag can be maintained by selecting the Status field in Master Data Libraries > **Vendors**, and automatically integrates with Estimate.



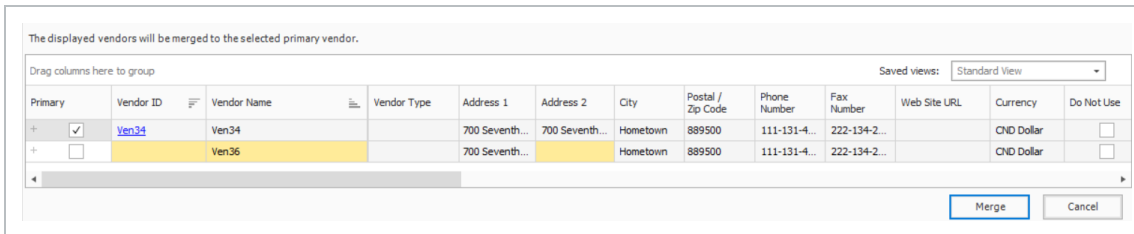
STEP BY STEP – MERGE ESTIMATE VENDORS TO PLATFORM

1. Choose one connected and disconnected vendor, then select **Merge Vendors with Platform**.

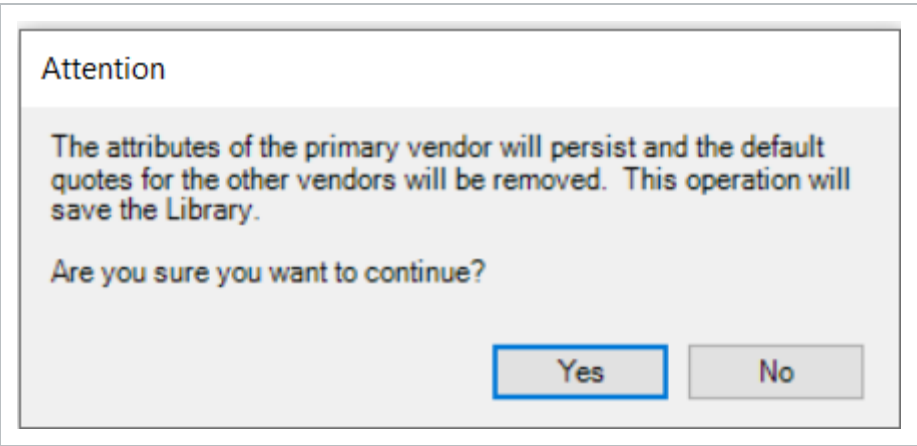


- Note that the connected Estimate vendor previously exists in Platform, prior to the merge of the two vendor records.

2. Select **Merge**.

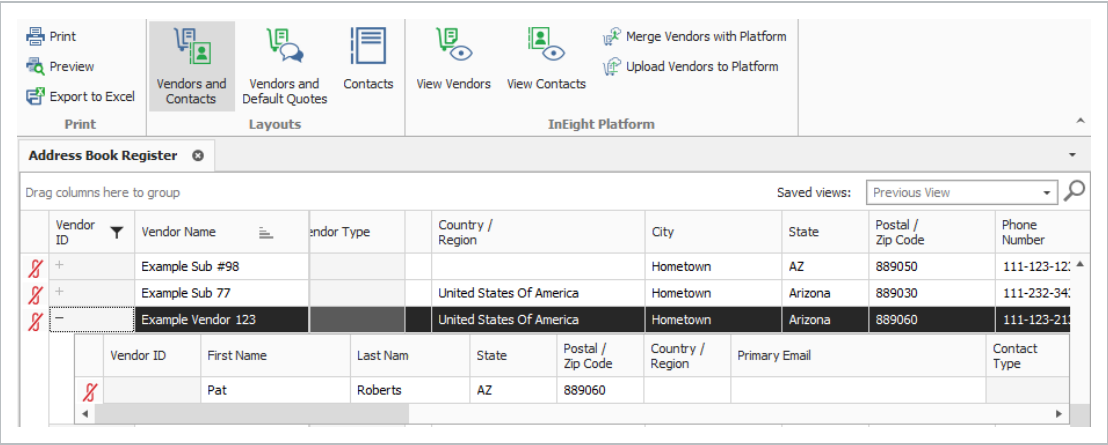


- Notice that the primary vendor is checked, as this record already exists in Platform.
 - Other records where the Primary field is not checked are records to be merged into the primary record.
 - Fields in yellow for the non-primary records are deltas. These deltas will not be merged, and differences will be lost once they are merged, as the data that exists in Platform takes precedence. If you want any of the disconnected data to exist in Platform, you need to manually change the data in Platform. The advantage for this is to allow for the disconnected Estimate vendors to become associated with an already existing Platform vendor, which lets the contact to still be keyed in areas it was used in Estimate, such as in Quotes and RFQs.
3. Select **Yes** in the Attention dialogue box to acknowledge that the attributes of the primary contact will exist.

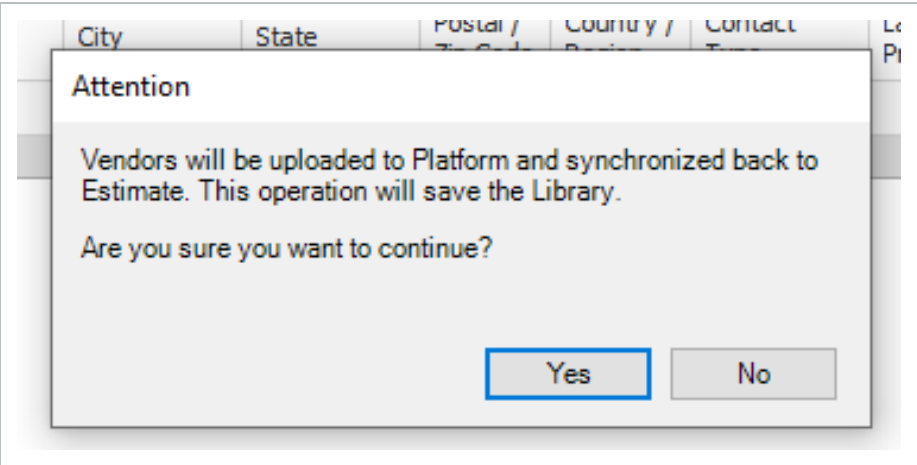


STEP BY STEP – UPLOAD ESTIMATE VENDORS TO PLATFORM

- 1. Choose a disconnected vendor with an associated contact, and then select **Upload Vendors to Platform**.

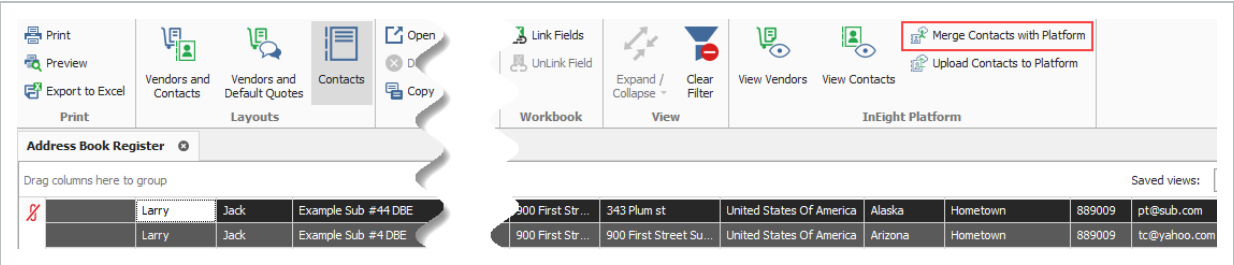


- 2. Click the **+** symbol to the left of the Vendor ID to expand all the records. Select **Upload** to sync the vendor shown with the contact in this window to Platform.
 - The preview dialog box opens.
- 3. Select **Yes** in the Attention dialogue box to confirm that the vendor will be uploaded to Platform and synchronized back to the Estimate Address Book library.

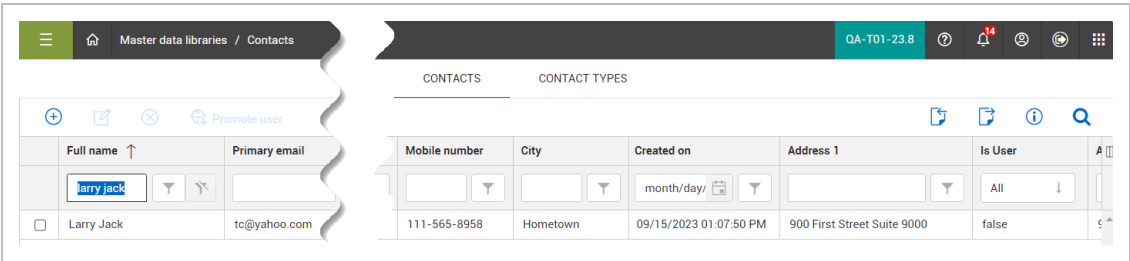


STEP BY STEP – MERGE CONTACTS TO PLATFORM

- 1. Choose one connected and one disconnected contact, and then select **Merge Contacts with Platform**.



- Prior to the merge, note that the connected Estimate contact previously exists in Platform, prior to the merge of the two contact records.



- 2. Select **Merge**.

The displayed contacts will be merged to the selected primary contact.

Drag columns here to group

Saved views: Previous View

Primary	First Name	Last Name	Company	Primary Email	Contact Type	Address 1	Address 2	Country / Region	State	City	Postal / Zip Code	Mobile Number	Office Number
<input checked="" type="checkbox"/>	Larry	Jack	Example Sub #4 DBE	tc@yahoo.com	Estimate Cont...	900 First Str...	900 First Str...	United State...	Arizona	Hometown	889009	111-565-8...	111-332-4...
<input type="checkbox"/>	Larry	Jack	Example Sub #44 DBE	pt@sub.com		900 First Str...	343 Plum st	United State...	Alaska	Hometown	889009		111-332-4...

Merge

Cancel

- Notice that the primary contact is checked, as this record already exists in Platform.
 - Other records where the Primary field is not checked are records to merge into the primary record.
 - Fields in yellow for the non-primary records are deltas. These deltas will not be merged, and differences will be lost after they are merged, as the data that exists in Platform takes precedence. If you want any of the disconnected data to exist in Platform, you need to manually change the data in Platform. The advantage for this is to allow for the disconnected Estimate contact to become associated with an already existing Platform contact, which lets the contact to still be keyed in areas it was used in Estimate, such as in Quotes and RFQs.
3. Select **Yes** in the Attention dialogue box to acknowledge that the attributes of the primary contact will exist.

Attention

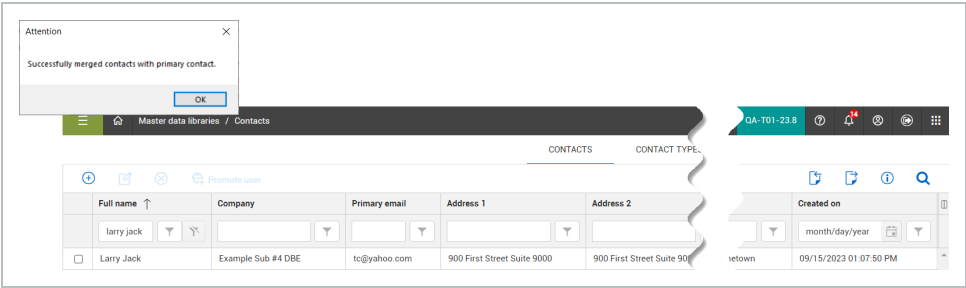
The attributes of the primary contact will persist. This operation will save the Library.

Are you sure you want to continue?

Yes

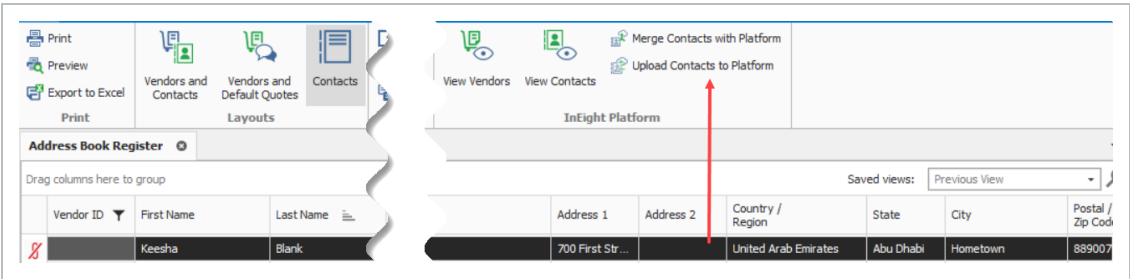
No

- A message shows it was successful, and the entry is created in Platform.



STEP BY STEP – UPLOAD CONTACTS TO PLATFORM

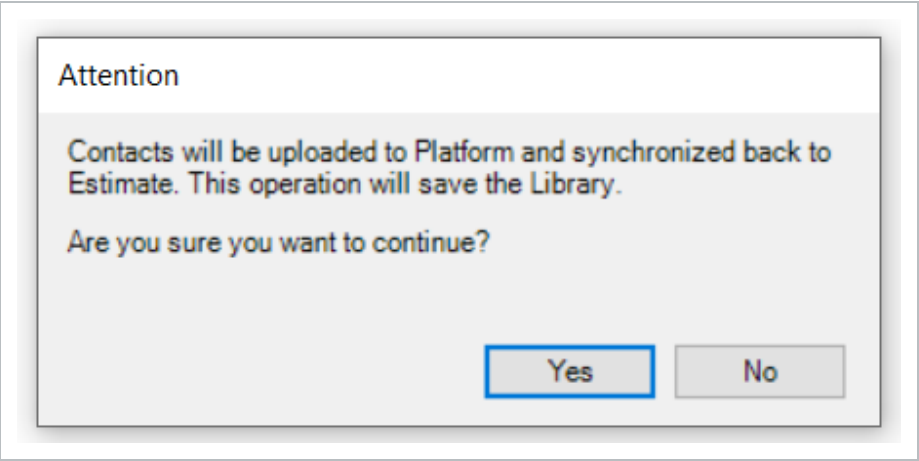
1. Choose a disconnected contact, and then select **Upload Contacts to Platform**.



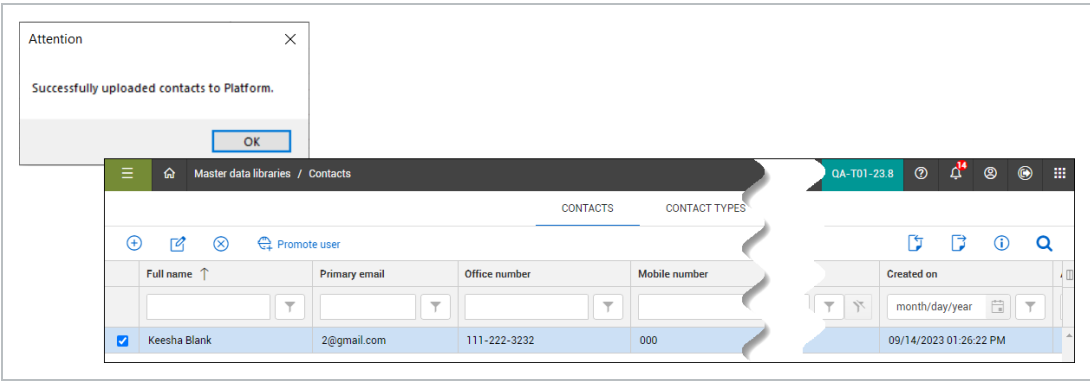
2. Select **Upload** to send the contact shown in this window to Platform.
- The purpose of the preview dialog is to let you see what will be created in Platform, and to correct any issues before completing the operation.



3. Select **Yes** in the Attention dialogue box to upload the contact to Platform, synchronize back to Estimate, and save to the library.

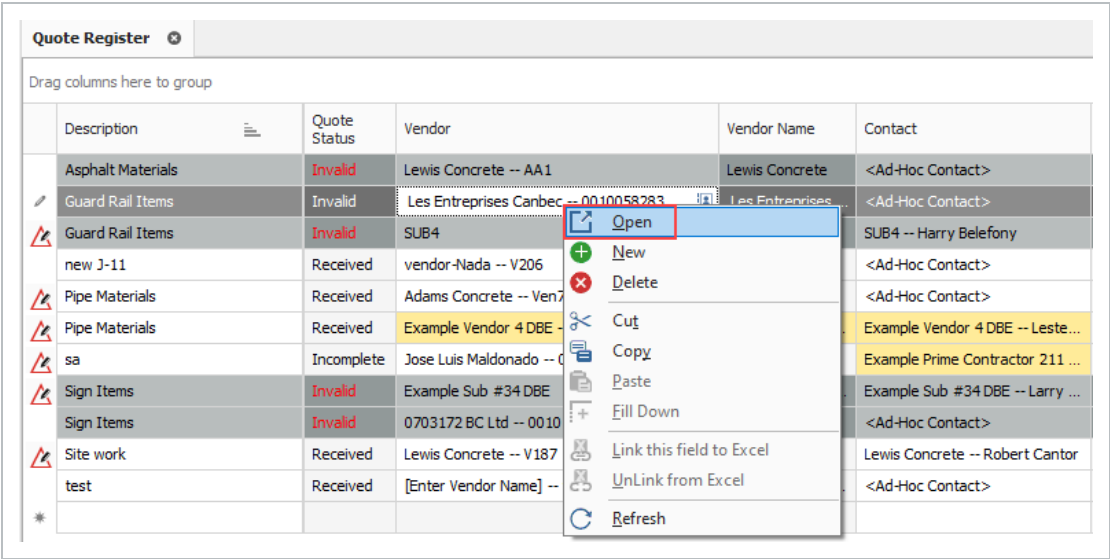


- A message shows it was successful, and the entry is created in Platform.

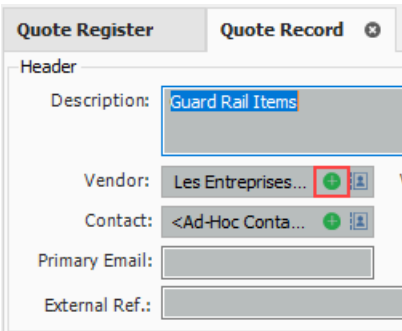


STEP BY STEP – CREATE VENDORS AND CONTACTS VIA QUOTE RECORD


- 1. Navigate to the Quote register and open an existing quote.



- 2. Click the **Vendor Quick Add** icon in the Quote Record register.



- 3. In the Vendor Record - Library window, enter a new **Vendor ID** and **Vendor Name**. Under the Vendor Name field, enter in the other non-required information such as the Address and Phone Number.


Vendor Record - Library
—
□
✕

Vendor Details

Vendor ID: * Ven7869

Vendor Name: * Adams Concrete

Vendor Type: Z002

Tax ID:

Tax Jurisdiction:

Address 1: 1029 King St

Address 2:

Country / Region: United States Of America

City: Scottsdale

State: Arizona

Postal / Zip Code: 85258

Phone Number: 480 555 6987

Fax Number:

Web Site URL:

Reference Number: ABL-3947

Quote

Currency: U.S. Dollar

Do Not Use: ☐

Contacts
Notes
License / Bond / Insurance
Minority Certifications
Default Quotes

Tag 1: Last Changed By: Paul

Tag 2: Last Changed On: 1/24/2024 2:11:49 PM

Tag 3:

Notes:

OK

Cancel

New...

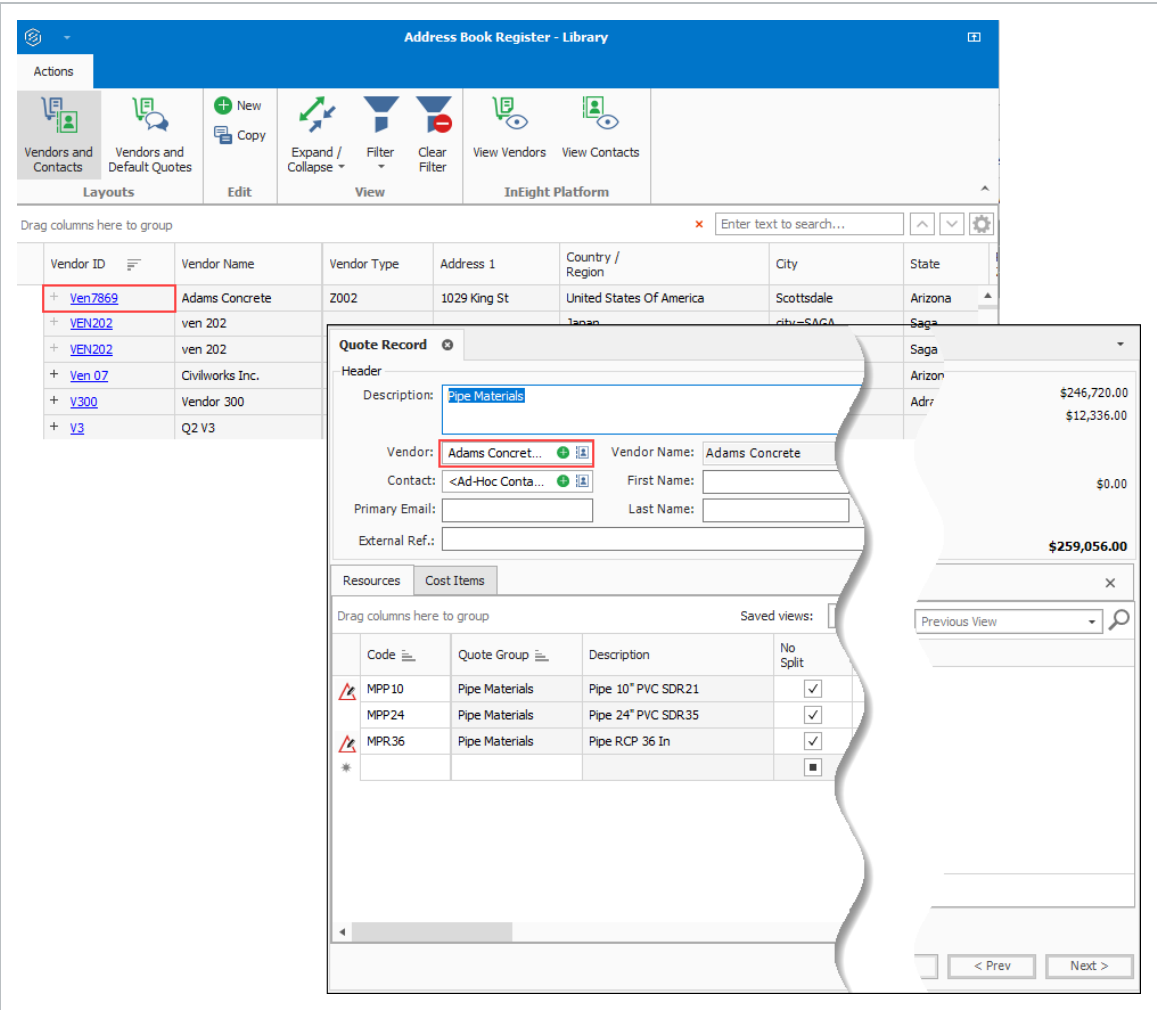
< Prev

Next >

- On the right side of the window, enter any relevant information in the tabs, such as vendor notes and license, bond and insurance information, and then click **OK**.

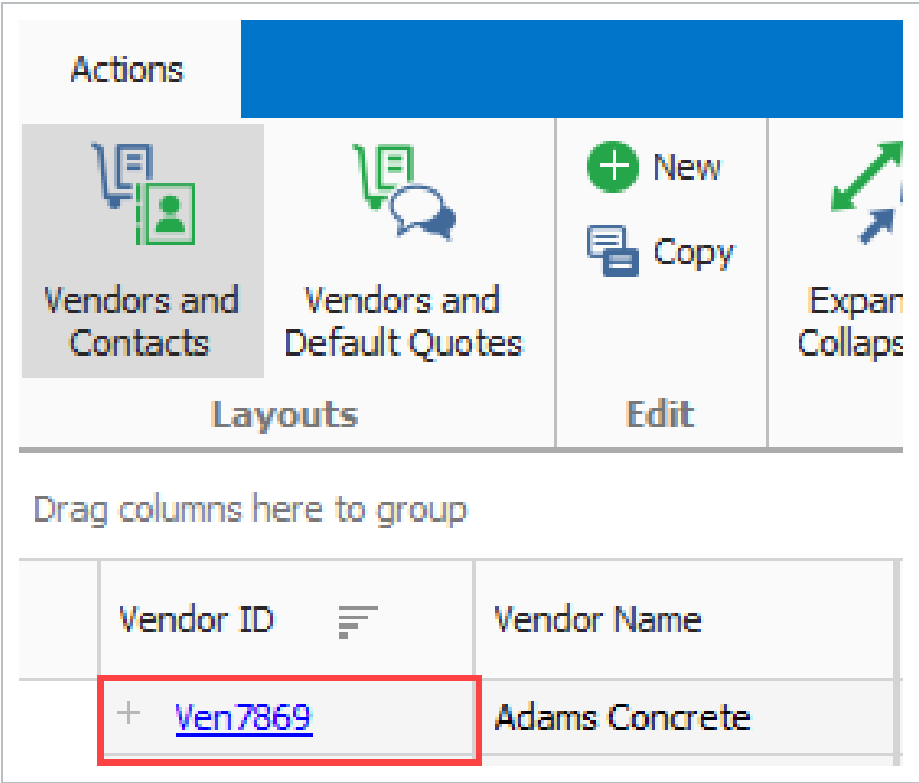
Contacts	Notes	License / Bond / Insurance	Minority Certifications	Default Quotes
Tag 1: <input type="text" value="Concrete"/> Last Changed By: <input type="text" value="Paul"/>				
Tag 2: <input type="text" value=""/> Last Changed On: <input type="text" value="1/24/2024 2:17:05 PM"/>				
Tag 3: <input type="text" value=""/>				
Notes: <div> - Use this vendor for project work in the Phoenix metro area. - Reference number must be included on the work invoice upon project completion. </div>				
<input type="button" value="OK"/>		<input type="button" value="Cancel"/>		<input type="button" value="New..."/>
		<input type="button" value=" < Prev"/>		<input type="button" value=" Next >"/>

The new vendor is now added to the Estimate Address Book Register - Library.



The following steps help to confirm that the vendor was created correctly, and that it can be used to update or maintain the vendor after it has already been created, including steps to create a new contact on the fly.

- 5. Click the new **Vendor ID** in the Estimate Address Book Register - Library.



The new vendor opens in Project Suite > Master data libraries > **Vendors**.

The screenshot shows the 'Vendor details' form within the 'Master data libraries / Vendors' section. The form is divided into two columns. The left column contains fields for: * ID (Ven7869), Alternate name, Vendor tax ID, Status (Available), Default payment terms (Default payment terms), and Default incoterms location. The right column contains fields for: * Name (Adams Concrete), Vendor type (Z002), Vendor tax jurisdiction, Default currency (Select one), and Default incoterms (Default incoterms). At the bottom, there is an 'Addresses' section with tabs for PRIMARY, REMIT TO, and ADDITIONAL. The PRIMARY tab is selected, showing 'Country / Region' and 'Address 1'. A 'Cancel' button and a 'Save' button are located at the top right of the form area.

6. Click the **Contact Quick Add** icon in the Quote Record register.

The screenshot shows the 'Quote Register' and 'Quote Record' window. The 'Quote Register' tab is active, showing a 'Header' section with fields for 'Description' (Pipe Materials), 'Vendor' (Adams Concrete -- Ven7869), 'Contact' (<Ad-Hoc Contact>), 'Primary Email', and 'External Ref.'. The 'Contact' field is highlighted with a red box, and a green plus icon is visible next to it, indicating the 'Contact Quick Add' icon.

7. In the Contact Record - Library window, enter the **First Name**, **Last Name**, **Company**, and **Primary Email**. Under the Primary Email field, enter in the other non-required information such as the Address and Phone Number, and then click **OK**.

Contact Record - Library

Contact Details

First Name: * Tom

Last Name: * McHenry

Company: * Vendor 1

Primary Email: * Name25@Example.com

Contact Type: Estimate Contact ...

Department: Estimating

Position: Estimator

Title: Lead Estimator

Language Preference: ...

Address 1: 123 Maple Dr

Address 2:

Country/Region: United States Of America ...

State: Arizona ...

City: Scottsdale

Postal/Zip Code: 85259

Fax Number:

Office Number:

Mobile Number: 480 555 3659

Vendor

Vendor ID: Vend 1

Vendor: Vendor 1 -- Vend 1

Do Not Use: ☐

Security

Last Changed By: Paul Trippi

Last Changed On: 1/25/2024 9:11:43 AM

OK

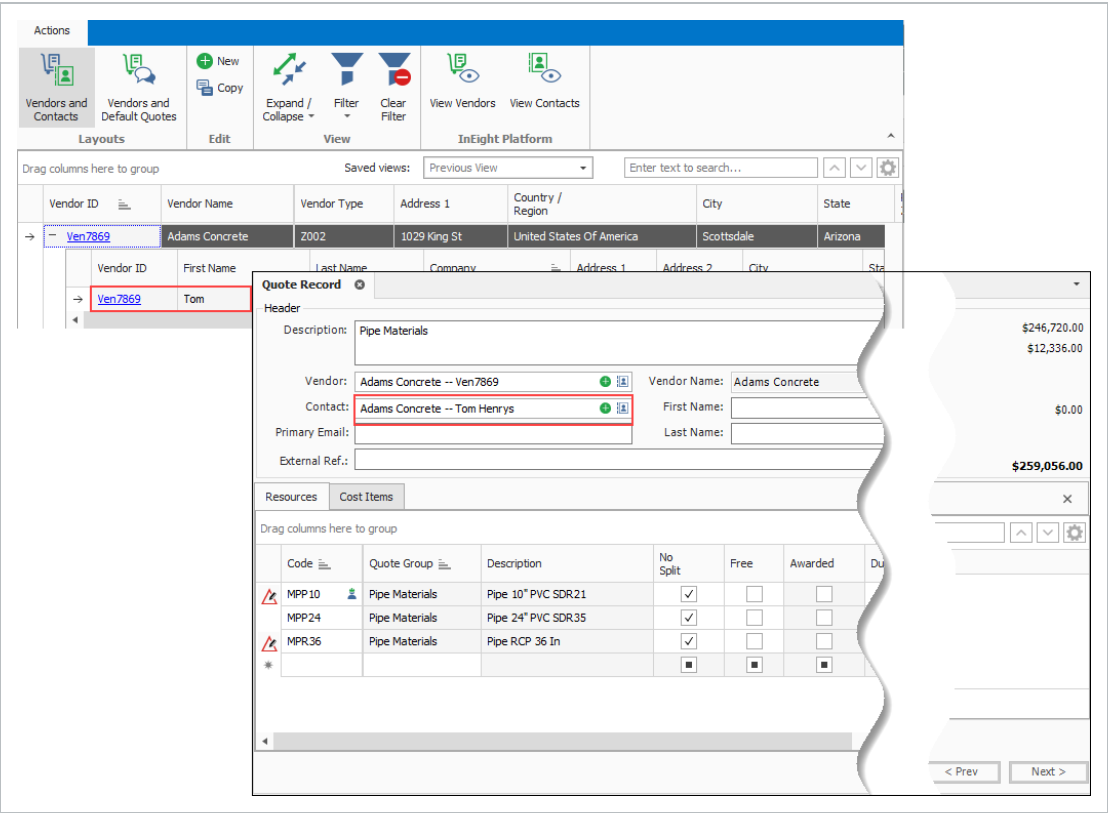
Cancel

New...

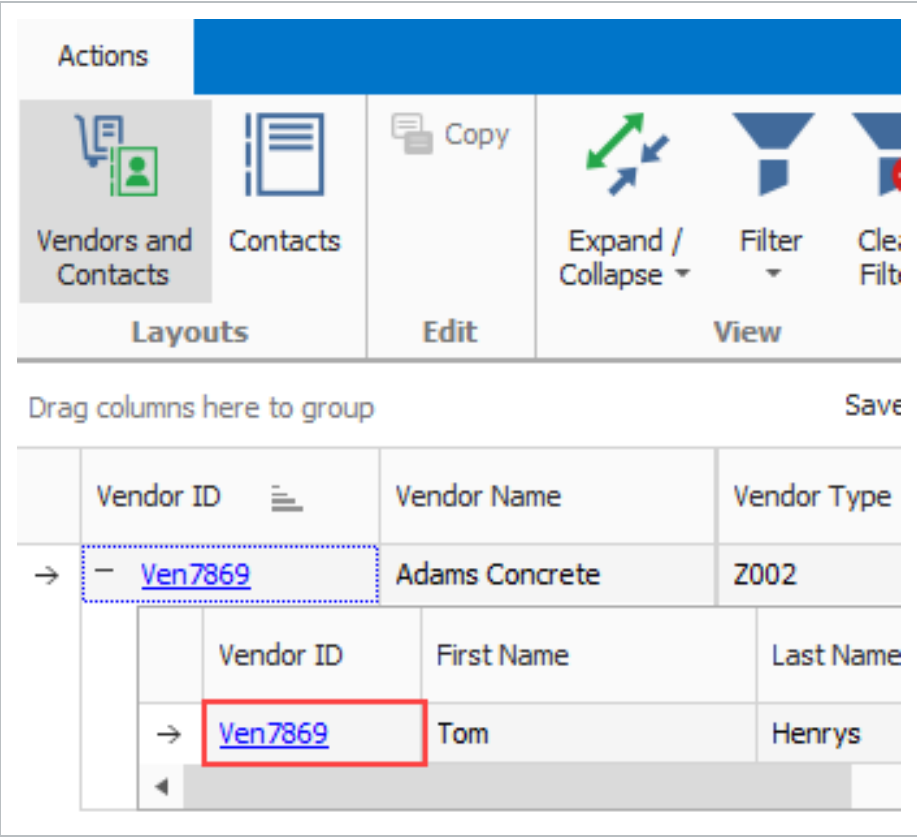
< Prev

Next >

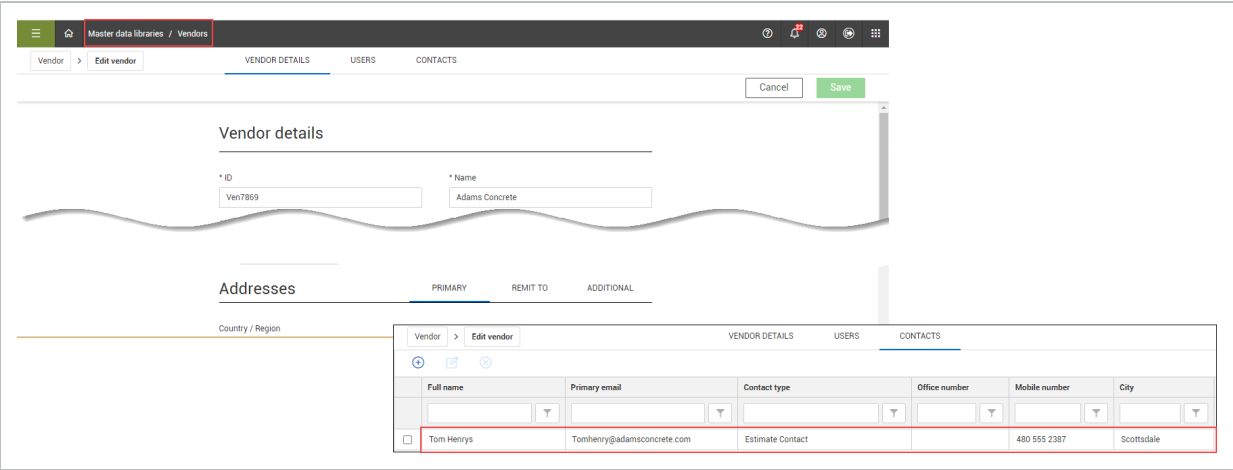
The new contact is now added to the Estimate Address Book Register - Library.



8. Click the new contact **Vendor ID** in the Estimate Address Book Register - Library.



The vendor opens in Project Suite > Master data libraries > **Vendors**, and includes the new contact.



RELEVANT LINKS

System settings options

Archive and restore jobs

Video - Migrating your Estimate address book

Video - Library job properties

3.4 LIBRARY JOB PROPERTIES PRICING

3.4.1 JOB PROPERTIES OVERVIEW

In Job Properties Overview > **Pricing**, there are balanced price and markup options in the bid pricing area which lets you categorize costs, markup various costs in an estimate, and distribute that markup throughout the bid which establishes balanced bid prices.

The screenshot shows the 'Job Properties' window with the 'Pricing' tab selected. The window has a title bar 'Job Properties' with a close button. Below the title bar are several tabs: 'Overview', 'Security', 'Cover Sheet', 'Cost Basis', 'Minority Setup', 'Fuel Cost', and 'Pricing'. The 'Pricing' tab is active and contains two main sections: 'Balanced Price Options' and 'Markup Options'. In the 'Balanced Price Options' section, there are two radio button groups. The first group is 'Calculate Balanced Pay Item Prices using:' with 'Cost Amount' selected. The second group is 'Distribute Unassigned Cost/Billing Amount by:' with 'Individual Categories' selected. In the 'Markup Options' section, there are two radio button groups. The first group is 'Markup Pay Item by:' with 'Using Weighted Distribution' selected. The second group is 'Categorize Business Overhead as:' with 'Markup' selected. At the bottom of the 'Markup Options' section, there is a label 'Calculate Proposal Recap Forecast Markup using:' with two radio button options: 'Unit Markup (current) x Forecast (T/O) Quantity' (selected) and 'Forecast Price - Total Cost/Billing'.

Job Properties ✕

Overview Security Cover Sheet Cost Basis Minority Setup Fuel Cost **Pricing**

Balanced Price Options

Calculate Balanced Pay Item Prices using:

☒ Cost Amount

☐ Billing Amount

Distribute Unassigned Cost/Billing Amount by:

☒ Individual Categories

☐ Top level Categories

☐ Total Cost/Billing amount

Markup Options

Markup Pay Item by:

☒ Using Weighted Distribution

☐ Keeping Markup with Assigned Costs

Categorize Business Overhead as:

☐ Indirect Cost

☒ Markup

Calculate Proposal Recap Forecast Markup using:

☒ Unit Markup (current) x Forecast (T/O) Quantity

☐ Forecast Price - Total Cost/Billing

3.4.2 BALANCED PRICE OPTIONS

This option determines if a pay item will use the cost or billing amount values of the assigned cost items as the basis for determining a balanced bid price. This also determines if the AutoPrice command will use the cost or billing amount values.

3.4.2.1 CALCULATE BALANCED PAY ITEM PRICES USING COST AMOUNT:

Balanced Price Options

Calculate Balanced Pay Item Prices using:

- ☒ Cost Amount
☐ Billing Amount

Price Breakdown Structure										
Description	Assigned	Unassigned	Total	% of Target	% of Subject	Assigned Billing	Unassigned Billing	Total Billing	% of Target	% of Subject
▼ Price Breakdown Structure										
▼ Target Price	\$5,040,796.20	\$1,222,999.47	\$6,263,795.67	100.00		\$5,164,80...	\$1,123,41...	\$6,288,21...	100.00	
▼ Markup	\$0.00	\$896,159.52	\$896,159.52	14.31		\$0.00	\$755,068.85	\$755,068.85	12.01	
▼ Target Profit		\$594,133.61	\$594,133.61	9.49	11.13	\$0.00	\$447,511.92	\$447,511.92	7.12	8.00
▼ Indirect Cost Markup		\$14,730.68	\$14,730.68	0.24	5.00	\$0.00	\$27,331.76	\$27,331.76	0.43	8.00
▼ Direct Cost Markup		\$579,402.94	\$579,402.94	9.25	11.49	\$0.00	\$420,180.16	\$420,180.16	6.68	8.00
▼ Business Overhead	\$0.00	\$302,025.90	\$302,025.90	4.82		\$0.00	\$307,556.93	\$307,556.93	4.89	
Price % Add-On	\$0.00	\$281,870.81	\$281,870.81	4.50		\$0.00	\$281,870.81	\$281,870.81	4.48	
Job Financing	\$0.00	\$5,762.53	\$5,762.53	0.09		\$0.00	\$5,762.53	\$5,762.53	0.09	
Indirect Cost Escalation	\$0.00	\$2,131.11	\$2,131.11	0.03		\$0.00	\$2,983.55	\$2,983.55	0.05	
Direct Cost Escalation	\$0.00	\$12,261.46	\$12,261.46	0.20		\$0.00	\$16,940.05	\$16,940.05	0.27	
Business Overhead Items	\$0.00	\$0.00	\$0.00	0.00		\$0.00	\$0.00	\$0.00	0.00	
▼ Total Cost	\$5,040,796.20	\$326,839.95	\$5,367,636.15	85.69		\$5,164,80...	\$368,342.37	\$5,533,14...	87.99	
▼ Indirect Cost	\$0.00	\$325,839.95	\$325,839.95	5.20		\$0.00	\$367,342.37	\$367,342.37	5.84	
▼ Job Overhead	\$0.00	\$325,839.95	\$325,839.95	5.20		\$0.00	\$367,342.37	\$367,342.37	5.84	
Prime Bond	\$0.00	\$45,618.98	\$45,618.98	0.73		\$0.00	\$45,618.98	\$45,618.98	0.73	
Indirect Cost Add-On	\$0.00	\$5,734.95	\$5,734.95	0.09		\$0.00	\$6,640.46	\$6,640.46	0.11	
Direct Cost Add-On	\$0.00	\$99,189.74	\$99,189.74	1.58		\$0.00	\$103,316.14	\$103,316.14	1.64	
Job Overhead Items	\$0.00	\$175,296.28	\$175,296.28	2.80		\$0.00	\$211,766.79	\$211,766.79	3.37	
▼ Direct Cost	\$5,040,796.20	\$1,000.00	\$5,041,796.20	80.49		\$5,164,80...	\$1,000.00	\$5,165,80...	82.15	
▼ Direct Cost Items	\$5,040,796.20	\$1,000.00	\$5,041,796.20	80.49		\$5,164,80...	\$1,000.00	\$5,165,80...	82.15	

3.4.2.2 CALCULATE BALANCED PAY ITEM PRICES USING BILLING AMOUNT:

Balanced Price Options

Calculate Balanced Pay Item Prices using:

☐ Cost Amount

☒ Billing Amount

Price Breakdown Structure										
Description	Assigned	Unassigned	Total	% of Target	% of Subject	Assigned Billing	Unassigned Billing	Total Billing	% of Target	% of Subject
▼ Price Breakdown Structure										
▼ Target Price	\$5,040,796.20	\$1,222,999.47	\$6,263,795.67	100.00		\$5,164,800.00	\$1,123,410.00	\$6,288,210.00	100.00	
▼ Markup	\$0.00	\$896,159.52	\$896,159.52	14.31		\$0.00	\$755,068.85	\$755,068.85	12.01	
▼ Target Profit		\$594,133.61	\$594,133.61	9.49	11.13	\$0.00	\$447,511.92	\$447,511.92	7.12	8.00
▼ Indirect Cost Markup		\$14,730.68	\$14,730.68	0.24	5.00	\$0.00	\$27,331.76	\$27,331.76	0.43	8.00
▼ Direct Cost Markup		\$579,402.94	\$579,402.94	9.25	11.49	\$0.00	\$420,180.16	\$420,180.16	6.68	8.00
▼ Business Overhead	\$0.00	\$302,025.90	\$302,025.90	4.82		\$0.00	\$307,556.93	\$307,556.93	4.89	
Price % Add-On	\$0.00	\$281,870.81	\$281,870.81	4.50		\$0.00	\$281,870.81	\$281,870.81	4.48	
Job Financing	\$0.00	\$5,762.53	\$5,762.53	0.09		\$0.00	\$5,762.53	\$5,762.53	0.09	
Indirect Cost Escalation	\$0.00	\$2,131.11	\$2,131.11	0.03		\$0.00	\$2,983.55	\$2,983.55	0.05	
Direct Cost Escalation	\$0.00	\$12,261.46	\$12,261.46	0.20		\$0.00	\$16,940.05	\$16,940.05	0.27	
Business Overhead Items	\$0.00	\$0.00	\$0.00	0.00		\$0.00	\$0.00	\$0.00	0.00	
▼ Total Cost	\$5,040,796.20	\$326,839.95	\$5,367,636.15	85.69		\$5,164,800.00	\$368,342.37	\$5,533,142.37	87.99	
▼ Indirect Cost	\$0.00	\$325,839.95	\$325,839.95	5.20		\$0.00	\$367,342.37	\$367,342.37	5.84	
▼ Job Overhead	\$0.00	\$325,839.95	\$325,839.95	5.20		\$0.00	\$367,342.37	\$367,342.37	5.84	
Prime Bond	\$0.00	\$45,618.98	\$45,618.98	0.73		\$0.00	\$45,618.98	\$45,618.98	0.73	
Indirect Cost Add-On	\$0.00	\$5,734.95	\$5,734.95	0.09		\$0.00	\$6,640.46	\$6,640.46	0.11	
Direct Cost Add-On	\$0.00	\$99,189.74	\$99,189.74	1.58		\$0.00	\$103,316.14	\$103,316.14	1.64	
Job Overhead Items	\$0.00	\$175,296.28	\$175,296.28	2.80		\$0.00	\$211,766.79	\$211,766.79	3.37	
▼ Direct Cost	\$5,040,796.20	\$1,000.00	\$5,041,796.20	80.49		\$5,164,800.00	\$1,000.00	\$5,165,800.00	82.15	
▼ Direct Cost Items	\$5,040,796.20	\$1,000.00	\$5,041,796.20	80.49		\$5,164,800.00	\$1,000.00	\$5,165,800.00	82.15	

3.4.2.3 DISTRIBUTION OF UNASSIGNED COSTS/BILLING AMOUNT BY INDIVIDUAL CATEGORIES

Distribute Unassigned Cost/Billing Amount by:

- ☒ Individual Categories
- ☐ Top level Categories
- ☐ Total Cost/Billing amount

Any costs in the estimate not assigned to a pay item needs to be proportionally spread back to all pay items to determine a balanced bid price. This option lets the user choose the basis for calculating the weighted distribution of any unassigned costs plus markup.

- Individual Categories - this option uses each individual cost categories as the basis for establishing the weighted distribution amounts.

Pay Item	Description	Total Cost	Gross Wages			Labor			Fringes			Balanced Price
			Cost	Weight	Distribution	Cost	Weight	Distribution	Cost	Weight	Distribution	
641 0100	Mobilization	\$13,106	\$1,763	0.9%	\$949	\$588	0.9%	\$290	\$294	0.9%	\$145	...
201 0102	Clearing & Grubbing	\$41,346	\$9,994	5.0%	\$5,379	\$3,331	5.0%	\$1,643	\$1,666	5.0%	\$822	...
202 0183	Unclassified Excavation	\$90,455	\$20,923	10.4%	\$11,260	\$6,974	10.4%	\$3,441	\$3,487	10.4%	\$1,720	...
303 5912	Aggregate Base	\$646,910	\$68,717	34.2%	\$36,981	\$22,906	34.2%	\$11,300	\$11,453	34.2%	\$5,650	...
303 4263	Asphalt Concrete Hot Mix Type A	\$1,756,802	\$85,169	42.4%	\$45,835	\$28,390	42.4%	\$14,005	\$14,195	42.4%	\$7,003	...
413(B) 0464	36 Inch RCP Culvert Class III	\$73,220	\$14,114	7.0%	\$7,596	\$4,705	7.0%	\$2,321	\$2,352	7.0%	\$1,160	...
Total Direct Costs		\$2,621,839	\$200,681		\$108,000	\$66,894		\$33,000	\$33,447		\$16,500	...
Unassigned Cost		\$300,000	\$90,000			\$30,000			\$15,000			
Markup		\$45,000	\$18,000			\$3,000			\$1,500			
Total Distribution		\$345,000	\$108,000			\$33,000			\$16,500			
Target Price		\$2,966,839										

- Top Level Cost Categories - This option uses the ten top level cost categories (labor, owned equipment, rented equipment, supplies, materials, etc.) as the basis for establishing the weighted distribution amounts.

Pay Item	Description	Total Cost	Labor			Owned Equipment			Materials			Balanced Price
			Cost	Weight	Distribution	Cost	Weight	Distribution	Cost	Weight	Distribution	
641 0100	Mobilization	\$13,106	\$2,939	0.9%	\$1,582	\$9,642	2.1%	\$2,332	\$0	0.0%	\$0	\$17,020
201 0102	Clearing & Grubbing	\$41,346	\$16,657	5.0%	\$8,964	\$23,587	5.2%	\$5,705	\$0	0.0%	\$0	\$56,015
202 0183	Unclassified Excavation	\$90,455	\$34,872	10.4%	\$18,767	\$55,583	12.2%	\$13,443	\$0	0.0%	\$0	\$122,665
303 5912	Aggregate Base	\$646,910	\$114,528	34.2%	\$61,635	\$118,815	26.1%	\$28,736	\$394,728	22.6%	\$12,431	\$749,712
303 4263	Asphalt Concrete Hot Mix Type A	\$1,756,802	\$141,949	42.4%	\$76,392	\$235,310	51.7%	\$56,911	\$1,316,700	75.4%	\$41,465	\$1,931,570
413(B) 0464	36 Inch RCP Culvert Class III	\$73,220	\$23,524	7.0%	\$12,660	\$11,877	2.6%	\$2,873	\$35,078	2.0%	\$1,105	\$89,857
	Total Direct Costs	\$2,621,839	\$334,469		\$180,000	\$454,814		\$110,000	\$1,746,506		\$55,000	\$2,966,839
	Unassigned Cost	\$300,000	\$150,000			\$100,000			\$50,000			
	Markup	\$45,000	\$30,000			\$10,000			\$5,000			
	Total Distribution	\$345,000	\$180,000			\$110,000			\$55,000			
	Target Price	\$2,966,839										

- Total Cost[/Billing Amount] - This option uses Total Cost as the basis for establishing the weighted distribution amounts.

Pay Item	Description	Total Cost	Weight	Distribution	Balanced Price
641 0100	Mobilization	\$13,106	0.5%	\$1,725	\$14,831
201 0102	Clearing & Grubbing	\$41,346	1.6%	\$5,441	\$46,787
202 0183	Unclassified Excavation	\$90,455	3.5%	\$11,903	\$102,358
303 5912	Aggregate Base	\$646,910	24.7%	\$85,125	\$732,035
303 4263	Asphalt Concrete Hot Mix Type A	\$1,756,802	67.0%	\$231,172	\$1,987,974
413(B) 0464	36 Inch RCP Culvert Class III	\$73,220	2.8%	\$9,635	\$82,855
	Total Direct Costs	\$2,621,839		\$345,000	\$2,966,839
	Unassigned Cost	\$300,000			
	Markup	\$45,000			
	Total Distribution	\$345,000			
	Target Price	\$2,966,839			

3.4.2.4 MARKUP OPTIONS

Markup Options

Markup Pay Item by:

☒ Using Weighted Distribution

☐ Keeping Markup with Assigned Costs

This option determines how markup is applied to pay items when establishing a balanced bid price.

- Using Weighted Distribution. Marking up Pay Items using weighted distribution takes the total markup and proportionally spreads the amount using the chosen weighted distribution method.

Pay Item	Description	Total Cost				Weight	Distribution	Balanced Price
		Labor	Equipment	Material	Total			
201 0102	Clearing & Grubbing	\$14,000	\$24,000	\$0	\$38,000	4.0%	\$4,556	\$42,556
202 0183	Unclassified Excavation	\$62,000	\$172,000	\$0	\$234,000	24.8%	\$28,055	\$262,055
303 5912	Aggregate Base	\$112,000	\$157,000	\$404,000	\$673,000	71.2%	\$80,689	\$753,689
	Total Direct Costs	\$188,000	\$353,000	\$404,000	\$945,000		\$113,300	\$1,058,300
	Markup							
	Markup Percent	20%	10%	10%				
	Markup Amount	\$37,600	\$35,300	\$40,400	\$113,300			
	Target Price				\$1,058,300			

- Keeping Markup rates to Assigned Costs. This option uses the cost category amounts of all assigned cost items and calculates the markup by applying markup percentages as defined in the direct and indirect cost markup records. Excluding cost items from the dependency tab of the markup record precludes the application of that markup percentage to the assigned costs on that pay item.

Pay Item	Description	Labor			Equipment			Material			Total		
		Cost	Markup	Price	Cost	Markup	Price	Cost	Markup	Price	Cost	Markup	Price
201 0102	Clearing & Grubbing	\$14,000	\$2,800	\$16,800	\$24,000	\$2,400	\$26,400	\$0	\$0	\$0	\$38,000	\$5,200	\$43,200
202 0183	Unclassified Excavation	\$62,000	\$12,400	\$74,400	\$172,000	\$17,200	\$189,200	\$0	\$0	\$0	\$234,000	\$29,600	\$263,600
303 5912	Aggregate Base	\$112,000	\$22,400	\$134,400	\$157,000	\$15,700	\$172,700	\$404,000	\$40,400	\$444,400	\$673,000	\$78,500	\$751,500
	Total Direct Costs	\$188,000	\$37,600	\$225,600	\$353,000	\$35,300	\$388,300	\$404,000	\$40,400	\$444,400	\$945,000	\$113,300	\$1,058,300
	Markup Percentages												
	Labor	20%											
	Equipment	10%											
	Material	10%											

3.4.2.5 CATEGORIZE BUSINESS OVERHEAD AS INDIRECT COST

Categorize Business Overhead as:

☒

 Indirect Cost

☐

 Markup

This option controls where cost Items with a cost segment of business overhead appear in the PBS.

- Indirect Cost - Business Overhead is included as a subcategory of indirect costs in the PBS.

Job Properties		Pay Item & Proposal Register		Price Breakdown Structure		Cost Breakdown Structure (C	
Description		Assigned	Unassigned	Total	% of Target	% of Subject	
▼ Price Breakdown Structure							
▼ Target Price		\$5,263,291.67	\$1,259,783.56	\$6,523,075.24	100.00		
▼ Markup		\$0.00	\$638,732.42	\$638,732.42	9.79		
▶ Target Profit			\$638,732.42	\$638,732.42	9.79	11.52	
▼ Total Cost		\$5,263,291.67	\$621,051.14	\$5,884,342.81	90.21		
▼ Indirect Cost		\$0.00	\$620,051.14	\$620,051.14	9.51		
▶ Business Overhead		\$0.00	\$340,453.76	\$340,453.76	5.22		
▶ Job Overhead		\$0.00	\$279,597.38	\$279,597.38	4.29		
▼ Direct Cost		\$5,263,291.67	\$1,000.00	\$5,264,291.67	80.70		
Direct Cost Items		\$5,263,291.67	\$1,000.00	\$5,264,291.67	80.70		

- Markup - Business Overhead is included as a subcategory of Markup in the PBS.

Job Properties	Pay Item & Proposal Register	Price Breakdown Structure		Cost Breakdown Structure (C	
Description	Assigned	Unassigned	Total	% of Target	% of Subject
▼ Price Breakdown Structure					
▼ Target Price	\$5,263,291.67	\$1,259,783.56	\$6,523,075.24	100.00	
▼ Markup	\$0.00	\$979,186.18	\$979,186.18	15.01	
> Target Profit		\$638,732.42	\$638,732.42	9.79	11.52
> Business Overhead	\$0.00	\$340,453.76	\$340,453.76	5.22	
▼ Total Cost	\$5,263,291.67	\$280,597.38	\$5,543,889.05	84.99	
▼ Indirect Cost	\$0.00	\$279,597.38	\$279,597.38	4.29	
> Job Overhead	\$0.00	\$279,597.38	\$279,597.38	4.29	
▼ Direct Cost	\$5,263,291.67	\$1,000.00	\$5,264,291.67	80.70	
Direct Cost Items	\$5,263,291.67	\$1,000.00	\$5,264,291.67	80.70	

3.4.2.6 CALCULATE PROPOSAL RECAP FORECAST MARKUP

Calculate Proposal Recap Forecast Markup using:

- ☒ Unit Markup (current) x Forecast (T/O) Quantity
- ☐ Forecast Price - Total Cost/Billing

This option determines how the Markup is determined in the Forecast column of the Proposal Recap data block on the Pay Item & Proposal form.

- Unit Markup (current) × Forecast (T/O) Quantity - The Forecast Markup amount is determined as the sum of each Pay Items Unit Markup (current) multiplied by the Pay Items Forecast (T/O) Quantity.

Proposal Recap - Training Job									
	Current	Target	Forecast	Variance					
Price:	\$6,455,450.00	\$6,523,075.24	\$6,462,850.00	\$67,625.24	ADD				
Markup:	\$571,107.19	\$638,732.42	\$631,560.32	\$7,172.10	ADD				
Margin%:	8.85	9.79	9.77	\$1,413.30	ADD				

Job Properties	Pay Item & Proposal Register	Price Breakdown Structure	Cost Breakdown Structure (CBS) Register
----------------	------------------------------	---------------------------	---

Drag columns here to group

Position Code	Pay Item Number	Description	Forecast (T/O) Quantity	Unit of Measure	Unit Price (current)	Total Price (current)	Unit Markup (current)	Total Markup (current)	Unit (bs)
+ 1	641 0100	Mobilization	1.00	Lump Sum	\$386,800.00	\$386,800.00	\$370,596.05	\$370,596.05	
+ 2	201 0102	Clearing & Grubbing	10.00	Acre	\$6,120.00	\$61,200.00	\$1,007.30	\$10,072.97	
+ 3	202 0183	Unclassified Excavation	50,000.00	Cubic Yard	\$8.50	\$425,000.00	\$3.04	\$151,909.18	
+ 4	303 5912	Aggregate Base	45,000.00	Ton	\$22.00	\$880,000.00	\$4.64	\$185,711.50	
+ 5	303 4263	Asphalt Concrete Hot Mix Type A	35,000.00	Ton	\$35.00	\$1,330,000.00	(\$12.23)	(\$464,653.94)	
+ 6	413(B) 0464	36 Inch RCP Culvert Class III	1,024.00	Linear Feet	\$100.00	\$100,000.00	\$23.17	\$23,166.27	
+ 7	800 0220	10 Inch PVC Force Main (SDR21)	12,000.00	Linear Feet	\$28.00	\$336,000.00	\$1.46	\$17,550.62	
+ 8	800 0330	24 Inch PVC Gravity Sewer (SDR35)	3,000.00	Linear Feet	\$64.00	\$192,000.00	\$7.46	\$22,394.31	
+ 9	800 0400	4 Foot Diameter Manhole	16.00	Each	\$4,500.00	\$72,000.00	\$448.18	\$7,170.88	
+ 10	501(A) 1306	Structural Excavation & Backfill	800.00	Cubic Yard	\$30.00	\$24,000.00	\$5.25	\$4,201.04	
+ 11	506(A) 1322	Steel Reinforcement	30,000.00	Pound	\$1.60	\$48,000.00	(\$0.01)	(\$363.37)	
+ 12	503(A) 1313	Retaining Wall	850.00	Cubic Yard	\$55.00	\$45,750.00	\$60.79	\$51,669.32	
+ 13	600 0300	Paint Existing Steel Bridge Structure	1.00	Lump Sum	\$100,000.00	\$100,000.00	\$10,918.94	\$10,918.94	
+ 14	700	Process Equipment	1.00	Each	\$1,920,500.00	\$1,920,500.00	\$170,356.68	\$170,356.68	
+ 15	1000	Removal of Underground Storage Tanks	2.00	Each	\$12,500.00	\$25,000.00	\$1,571.46	\$3,142.91	
+ 16	1010	Disposal of Contaminated Soil	800.00	Cubic Yard	\$25.00	\$20,000.00	\$2.25	\$1,802.45	
+ 17	1200 0100	Toll Booth	1.00	Each	\$30,000.00	\$30,000.00	\$2,169.15	\$2,169.15	
+ 18	1500 0100	Guardrail Type 2	1,000.00	Linear Feet	\$24.00	\$24,000.00	(\$2.06)	(\$2,059.88)	
+ 19	1500 0200	Guardrail Type 3A	200.00	Linear Feet	\$31.00	\$6,200.00	(\$2.66)	(\$532.14)	
+ 20	1600 0230	Type 4 Signs	1,000.00	Square Feet	\$13.00	\$13,000.00	(\$1.12)	(\$1,115.77)	
+ 21	C01	Realignment of Water Line	1.00	Each	\$7,000.00	\$7,000.00	\$7,000.00	\$7,000.00	
21						\$6,455,450.00		\$571,107.19	

- Forecast Price Total Price - Total Cost/Billing. The markup amount is determined by subtracting the sum of the total jobs cost based on forecast (T/O) quantities from the forecast bid price, which is the sum of all pay item current unit prices multiplied by the pay items forecast (T/O quantity).

Proposal Recap - Training Job					
	Current	Target	Forecast	Variance	
Price:	\$6,455,450.00	\$6,523,075.24	\$6,462,850.00	\$67,625.24	ADD
Markup:	\$571,107.19	\$638,732.42	\$627,743.91	\$10,988.51	ADD
Margin%:	8.85	9.79	9.71	\$5,643.97	ADD

Job Properties		Pay Item & Proposal Register	Price Breakdown Structure	Cost Breakdown Structure (CBS) Register					
Drag columns here to group				Saved views: Previous View					
Position Code	Pay Item Number	Description	Forecast (T/O) Quantity	Unit of Measure	Unit Price (current)	Total Price (current)	Unit Markup (current)	Total Markup (current)	Unit (Ba
+ 1	641 0100	Mobilization	1.00	Lump Sum	\$386,800.00	\$386,800.00	\$370,596.05	\$370,596.05	
+ 2	201 0102	Clearing & Grubbing	10.00	Acre	\$6,120.00	\$61,200.00	\$1,007.30	\$10,072.97	
+ 3	202 0183	Unclassified Excavation	50,000.00	Cubic Yard	\$8.50	\$425,000.00	\$3.04	\$151,909.18	
+ 4	303 5912	Aggregate Base	45,000.00	Ton	\$22.00	\$880,000.00	\$4.64	\$185,711.50	
+ 5	303 4263	Asphalt Concrete Hot Mix Type A	35,000.00	Ton	\$35.00	\$1,330,000.00	(\$12.23)	(\$464,653.94)	
+ 6	413(B) 0464	36 Inch RCP Culvert Class III	1,024.00	Linear Feet	\$100.00	\$100,000.00	\$23.17	\$23,166.27	
+ 7	800 0220	10 Inch PVC Force Main (SDR21)	12,000.00	Linear Feet	\$28.00	\$336,000.00	\$1.46	\$17,550.62	
+ 8	800 0330	24 Inch PVC Gravity Sewer (SDR35)	3,000.00	Linear Feet	\$64.00	\$192,000.00	\$7.46	\$22,394.31	
+ 9	800 0400	4 Foot Diameter Manhole	16.00	Each	\$4,500.00	\$72,000.00	\$448.18	\$7,170.88	
+ 10	501(A) 1306	Structural Excavation & Backfill	800.00	Cubic Yard	\$30.00	\$24,000.00	\$5.25	\$4,201.04	
+ 11	506(A) 1322	Steel Reinforcement	30,000.00	Pound	\$1.60	\$48,000.00	(\$0.01)	(\$363.37)	
+ 12	503(A) 1313	Retaining Wall	850.00	Cubic Yard	\$535.00	\$454,750.00	\$60.79	\$51,669.32	
+ 13	600 0300	Paint Existing Steel Bridge Structure	1.00	Lump Sum	\$100,000.00	\$100,000.00	\$10,918.94	\$10,918.94	
+ 14	700	Process Equipment	1.00	Each	\$1,920,500.00	\$1,920,500.00	\$170,356.68	\$170,356.68	
+ 15	1000	Removal of Underground Storage Tanks	2.00	Each	\$12,500.00	\$25,000.00	\$1,571.46	\$3,142.91	
+ 16	1010	Disposal of Contaminated Soil	800.00	Cubic Yard	\$25.00	\$20,000.00	\$2.25	\$1,802.45	
+ 17	1200 0100	Toll Booth	1.00	Each	\$30,000.00	\$30,000.00	\$2,169.15	\$2,169.15	
+ 18	1500 0100	Guardrail Type 2	1,000.00	Linear Feet	\$24.00	\$24,000.00	(\$2.06)	(\$2,059.88)	
+ 19	1500 0200	Guardrail Type 3A	200.00	Linear Feet	\$31.00	\$6,200.00	(\$2.66)	(\$532.14)	
+ 20	1600 0230	Type 4 Signs	1,000.00	Square Feet	\$13.00	\$13,000.00	(\$1.12)	(\$1,115.77)	
+ 21	CO1	Realignment of Water Line	1.00	Each	\$7,000.00	\$7,000.00	\$7,000.00	\$7,000.00	
21			\$6,462,850.00			\$6,455,450.00	\$571,107.19		

Job Properties		Pay Item & Proposal Register	Price Breakdown Structure	Cost Breakdown Structure (CBS) Register			
Drag columns here to group							
	CBS Position Code	Description	Optional Code	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)
→		JOB		20.00	Mile	\$291,755.30	\$5,835,106.09
+		Prime Bond	PRIME BOND	1.00	Lump Sum	\$46,915.38	\$46,915.38
+		Price % Add-On	PRICE % ADD-...	1.00	Lump Sum	\$293,538.39	\$293,538.39
+		Job Financing	FINANCE EXPE...	1.00	Lump Sum	\$0.00	\$0.00
+		Indirect Cost Escalation	INDIRECT COS...	1.00	Lump Sum	\$0.00	\$0.00
+		Direct Cost Escalation	DIRECT COST ...	1.00	Lump Sum	\$0.00	\$0.00
+		Indirect Cost Add-On	INDIRECT COS...	1.00	Lump Sum	\$0.00	\$0.00
+		Job Management & Equipment	JOB MANAGEM...	1.00	Lump Sum	\$157,096.28	\$157,096.28
+		General Expense	GENERAL EXPE...	1.00	Lump Sum	\$4,200.00	\$4,200.00
+		Direct Cost Add-On	DIRECT COST ...	1.00	Lump Sum	\$104,301.10	\$104,301.10
+ 1		Mobilization	641 0100	1.00	Lump Sum	\$11,909.51	\$11,909.51
+ 2		Clearing & Grubbing	201 0102	10.00	Acre	\$3,918.50	\$39,184.97
3		Unclassified Excavation	202 0183	50,000.00	Cubic Yard	\$4.68	\$233,915.81
+ 3.1		Excavation	3.1	50,000.00	Cubic Yard	\$3.00	\$149,922.88
+ 3.2		Embankment	3.2	50,000.00	Cubic Yard	\$1.68	\$83,992.94
4		Aggregate Base	303 5912	45,000.00	Ton	\$15.40	\$692,928.99
+ 4.1		Furnish & Haul Base Material	4.1	45,000.00	Ton	\$11.54	\$519,513.30
+ 4.2		Finegrade Subgrade	4.2	400,000.00	Square Yard	\$0.19	\$75,848.36
4.3		Install Aggregate Base	4.3	45,000.00	Ton	\$2.17	\$97,567.33
+ 4.3.1		Place Aggregate Base	4.3.1	45,000.00	Ton	\$1.63	\$73,460.92
+ 4.3.2		Blue Top Aggregate Base	4.3.2	400,000.00	Square Yard	\$0.06	\$24,106.42
5		Asphalt Concrete Hot Mix Type A	303 4263	35,000.00	Ton	\$42.62	\$1,491,580.59
+ 5.1		Furnish & Haul Hot Mix	5.1	35,000.00	Ton	\$39.27	\$1,374,562.54
102							\$5,835,106.09

3.5 LIBRARY FOUNDATION SETUP DATA

Foundation Setup Data is where all drop-down options within Estimate fields are stored. These can serve as category labels, alternate structures or validated tag fields. The different validated fields are organized into tabs on this form.

Utilized	Account Code	Description	Unit of Measure	Secondary Unit of Measure	Currency	Auto-Quantity (Primary)	Quantity	Auto-Quantity (Secondary)	Secondary Quantity
<input type="checkbox"/>	1001.345	Remove insulation	Each		U.S. Dollar	<input type="checkbox"/>	0.00	<input type="checkbox"/>	
<input type="checkbox"/>	1010	Environmental Work	Lump Sum		U.S. Dollar	<input type="checkbox"/>	1.00	<input type="checkbox"/>	
<input type="checkbox"/>	1019.234	Remove heater piping	Each		U.S. Dollar	<input type="checkbox"/>	1.00	<input type="checkbox"/>	
<input type="checkbox"/>	1020	Mobilization	Each		U.S. Dollar	<input type="checkbox"/>	1.00	<input type="checkbox"/>	

You should be aware of these category labels:

Category Labels

Name	Definition
Account Codes	These codes will be set up on the back end and will help you compare your cost and production rates to similar cost items in past projects.
Tags	Some tags are already set up for you. Additional tags can be created and used to group and filter your items.
Work Breakdown Structures	Use this format when you need to have multiple variations and summary reports of an estimate. WBS retains the same relationships between items as in the original estimate and only changes the view and how items are arranged in hierarchy.
Units of Measure	These are standardized to relate to one another by a conversion factor. If you need to create a new unit of measure, you will need to reference it to a base unit of measure and can include a conversion factor to allow you to convert back and forth between English and Metric.
Currencies	The default currency is set to U.S. Dollar, but you can also enter the exchange rate for other currencies (such as Canadian) so you can estimate with

Category Labels

whatever currency you need. Multiple currencies can be used in the same project. The system base currency can be changed from USD in the backstage view settings, but is a global change for the entire estimate environment.

Currency Name	Exchange Rate	Currency Symbol	Positive Currency Format	Negative Currency Format	Decimal Symbol
CND Dollar	1.00000	\$	\$1.1	(\$1.1)	Period (.)
U.S. Dollar	1.00000	\$	\$1.1	(\$1.1)	Period (.)

When you create a new job folder, all category labels defined in the Library Foundation Setup Data Register will be copied to the new job folder automatically.

RELEVANT LINKS

- System settings options
- Archive and restore jobs
- Video - Library foundation setup data
- Video - Migrating your Estimate address book

3.6 RESOURCES

InEight Estimate refers to labor, equipment and material items as Resources. You will use these resources as the basic building blocks used to detail the costs in your estimates.

InEight Estimate organizes resources into seven types:

Resources	
Name	Description
Labor	The human resources that perform direct or indirect work. Direct labor is typically classified by trade (e.g., pipefitters, electricians, iron workers) and title (e.g., foreman, journeyman, laborer).
Construction Equipment	Owned construction equipment.

Resources

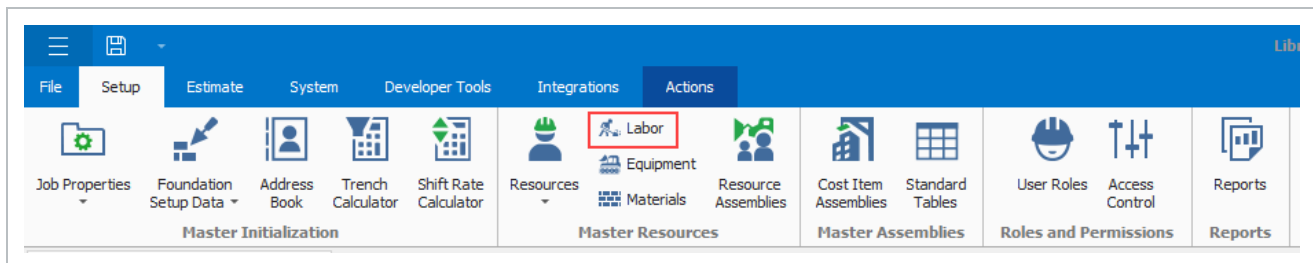
Rented Construction Equipment	Construction equipment rented from a third party.
Installed Materials	Materials that will remain installed on site after the project is completed, (e.g., concrete, piping, aggregate).
Installed Equipment	Equipment that will remain installed on site after the project is completed, (e.g., boilers, heat exchangers, vessels, cooling towers).
Supplies	Expendable items that will not be permanently installed (e.g., small tools, consumables).
Unique	Resources that are of a “unique” nature and do not fit well into the other types (e.g., dump fees, hauling charges and equipment rented by the month).

After creating a new job folder, you can import a filtered set of resources from the Library into the new project. This is done on the Cost Basis tab of the Job Properties form.

In the following section, you will learn more about the resources stored in your Library in the Library Resource Rate Register.

3.6.1 LIBRARY RESOURCES REGISTER

To open the Library Resources Register, select **Labor** from the **Master Resources** ribbon.



OVERVIEW - LIBRARY RESOURCE RATE REGISTER

Name		Description
1	Tabs	There are tabs along the top of the form for each of the seven resource

	Name	Description
		types, in addition to an <i>All</i> tab that holds the resources of all types. <ul style="list-style-type: none"> • Notice that you are on the Labor Tab
2	Resource Code	Each record (or row in the register) represents a single resource.
3	Description	The Description provides more detail about the resource.
4	Resource Rate per Unit	This is the resource cost per unit.
5	Utilization Count	Tells you how many units of that resource are being used in the job.
6	Unit of Measure	Each resource is defined with a Unit of Measure.
7	Register	This register includes columns for the resource attribute categories so you can filter and group your resources.

The screenshot shows the 'Resource Rate Register' window. Callout 1 points to the window title. Callout 2 points to the 'All' tab. Callout 3 points to the 'Labor' tab. Callout 4 points to the 'Unit Cost (Scale 1)' column. Callout 5 points to the 'Utilization Count' column. Callout 6 points to the 'Find' search box. Callout 7 points to the 'Saved views' dropdown.

Resource Code	Description	Unit Cost (Scale 1)	Unit Cost (Scale 2)	Unit Cost (Scale 3)	Utilization Count	Unit of Measure	Resource File Description	Wage Zone	Organizational Category
LC1	Carpenter Apprentice	\$27.48	\$41.22	\$54.96	594.37	Hour	Standard Labor Rate...	Wage Zone A	Carpenter
LC2	Carpenter Journey...	\$28.92	\$43.38	\$57.84	1,188.73	Hour	Standard Labor Rate...	Wage Zone A	Carpenter
LC3	Carpenter Foreman	\$31.47	\$47.20	\$62.94	594.37	Hour	Standard Labor Rate...	Wage Zone A	Carpenter
LF1	Finisher Apprentice	\$26.80	\$40.20	\$53.60	0.00	Hour	Standard Labor Rate...	Wage Zone A	Finisher - Concrete
LF2	Finisher	\$28.07	\$42.10	\$56.13	594.37	Hour	Standard Labor Rate...	Wage Zone A	Finisher - Concrete
LF3	Finisher Foreman	\$32.32	\$48.48	\$64.64	0.00	Hour	Standard Labor Rate...	Wage Zone A	Finisher - Concrete

SOURCE JOB AND SOURCE SYSTEM NAME FIELDS

The Source Job field provides visibility into the jobs from which the data may have originated from.

The Source System Name helps to see the source of the data when integrating with other systems.

Resource Type	Resource Code	Source Job	Source System Name	
+ Construction Equipment Rate	EMTB	Library	System	
+ Installed Material Rate	MDIRTB	Library	System	
+ Construction Equipment Rate	ETDT	Library	System	
+ Supply Rate	SFM	Library	System	
+ Supply Rate	SFH	Library	System	
+ Installed Material Rate	MPD16	Library	System	

TIP

Resource rate add and search tips:

- You cannot add new resources on the All tab.
- You can search for resources in the Resource Rate Register using the 'Find' field.

Next you will take a look at the different types of resources and how they differ when we drill into resource rate records from each category.

3.6.2 LABOR RESOURCES

Looking at your Labor resources more closely, you will see all the Resource Codes for the Labor resources begin with an L. This is a best practice for naming and organizing your resources, but you can also use another organizational method of your choice.

3.6.3 RESOURCE RATE RECORD

If you need to add cost to a resource, adjust a rate, or just view a more detailed breakdown, you can open the resource's rate record. From the Library Resource Rate Register, double click on the row header for the resource you need to view in greater detail.

Double click on the row header to open resource rate record

		Resource File Description	Unit of Measure	Productivity Factor
→ + LC1	Carpenter Apprentice	Standard Labor Rate...	Hour	1.00
+ LC1	Carpenter Apprentice	Standard Labor Rate...	Hour	1.00
+ LC2	Carpenter Journey...	Standard Labor Rate...	Hour	1.00
+ LC2	Carpenter Journey...	Standard Labor Rate...	Hour	1.00
+ LC3	Carpenter Foreman	Standard Labor Rate...	Hour	1.00

OVERVIEW - RESOURCE RATE RECORD

Name		Description
1	Record	The record references the resource you are editing.
2	Charge Rate	The Charge Rate tab is the tab the record defaults to and is where you define the cost of the resource.
3	Scale Buttons	The Scale buttons only show up on labor resources. They are used for defining regular time, overtime and double time rates for the resource.
4	Cost Category Breakdown	The Cost Category Breakdown is where you enter the costs for the resource. The categories will depend on what type of resource it is (e.g., equipment resources will have equipment cost categories and materials will have material cost categories).
5	Special Instructions / Base Wage Factors	The right side of the record will have additional options to help you define the rate. These options change depending on what type of resource it is.

Resource Rate Register

Labor Rate Record

Code: *

LC1

Description:

Carpenter Apprentice

Setup

Charge Rate

Long Rate

Scale 1

Scale 2

Scale 3

All Scales

Cost Category Breakdown	Amount	Percent	Is Taxed	Is Insured
Total	Varies			
Labor	Varies			
Labor Base	Varies			
Labor Burden	Varies			
Labor Fringes	Varies			
Labor Insurance	Varies			
Labor Taxes	Varies			
Undefined Labor B...	\$0.00	0.00		
Undefined Labor	\$0.00	0.00		
Materials	\$0.00			
Undefined	\$0.00			

Special Instructions

Use the Materials cost category to add additional labor cost for materials and supplies.

Worker's Comp values for this resource can be adjusted automatically when this resource is employed in a job, based on the geographic location of the work, and the Worker's Comp Override listed on the Cost Item on which the resource is employed.

Standard Worker's Comp Overrides can be defined in the Library's Foundation Setup Data Register.

Base Wage Factors for Overtime

☒ Use Base Wage Factors for Scales 2 and 3

Scale 2 Factor: 1.50 x Base Wage

Scale 3 Factor: 2.00 x Base Wage

This option multiplies the Scale 1 base wage by the factors entered here to automatically calculate the base wage for Scales 2 and 3.

Name		Description
6	Setup	There is also a Setup tab where you can define the resource's attributes, plus other settings. These attributes are used for filtering which resource rates to load into a new estimate.
7	Cost Driver	Labor resources default Cost Driver is CI Duration which means their costs are driven by time.
8	Default Quantity	The Default Quantity is typically set to 1 for most cases if you are bringing in the resource you are using at least one.

Setup

Charge Rate

Billing Rate

Resource File:

Standard Labor Rate File

Geographic Area:

Southwest

Wage Zone:

Wage Zone A

Org. Category:

Carpenter

Account Code:

Cost Driver:

CI Duration

Cost Curve:

Employed Cost Item

Tag 1:

Non Union

Tag 2:

Hourly

Tag 3:

Productivity Factor:

1.00

Default Quantity:

1.00

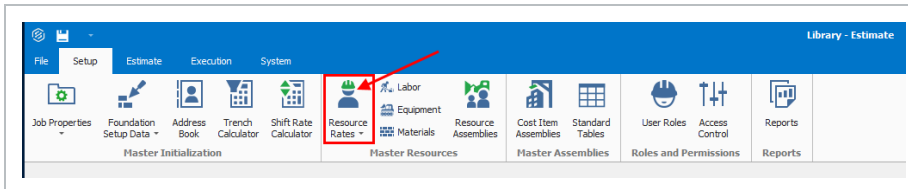
Currency:

U.S. Dollar

The following steps walk you through how to create a new labor resource.

STEP BY STEP – CREATE A LABOR RESOURCE

1. From the Library landing page, on the Setup tab, click on **Resource Rates** from the Master Resources section.



- The Library Resource Rate Register opens
2. Select the **Labor** tab.
 3. Right click on any row header and select **New**.
 - A new Labor Rate Record displays
 4. In the Code field, type **L + [your initials]**.
 5. Press the **Tab** key.
 6. Fill in the Description field.
 7. Click on the resource's **Setup** tab and select **Standard Labor Rate File** from the Resource File drop-down list.
 8. Select a **location** for the Geographic Area.
 9. Select **Wage Zone A** for Wage Zone.
 10. Select a **labor type** for the Organizational Category.
 11. For Tag 1, select a **code**.
 12. For Tag 2, select a **code**.
 13. On the Charge Rate tab, enter a **dollar value** for your Labor Base.
 14. Expand Labor Burden and under Labor Fringes, type in a **dollar value** for Pension and

Subsistence.

Resource Rate Register		Labor Rate Record	
Code: *	LMECHINEIGHT	Description:	Mechanic - Heavy Duty
Setup	Charge Rate	Billing Rate	
Scale 1	Scale 2	Scale 3	All Scales
Cost Category Breakdown	Amount		Percent
▼ Total	\$57.00		
▼ Labor	\$57.00		
Labor Base	\$52.00		
▼ Labor Burden	\$5.00		
▼ Labor Fringes	\$5.00		
Travel	\$0.00	←	0.00
Premium	\$0.00	←	0.00
Holiday	\$0.00	←	0.00
Savings	\$0.00	←	0.00
Pension	\$3.00	←	5.77
Vacation	\$0.00	←	0.00
Subsistence	\$2.00	←	3.85
Health & Welfare	\$0.00	←	0.00

15. Define an overtime and double-time rate for the resource. Select the **checkbox** for Use Base Wage Factors for Scales 2 and 3.
16. Set the Scale 2 Factor to **1.50** x Base Wage and Scale 3 Factor to **2.00** x Base Wage.

Base Wage Factors for Overtime	
<input checked="" type="checkbox"/>	Use Base Wage Factors for Scales 2 and 3
Scale 2 Factor:	1.50 x Base Wage
Scale 3 Factor:	2.00 x Base Wage
<p>This option multiplies the Scale 1 base wage by the factors entered here to automatically calculate the base wage for Scales 2 and 3.</p>	

17. Click **OK**, to close the record.

3.6.4 CONSTRUCTION EQUIPMENT RESOURCES

- Similar to Labor Resources, Construction Equipment Resources are also duration driven resources by default
- They contain cost categories for ownership and operation costs

Resource Rate Register											
<div> All Labor Construction Equipment Rented Construction Equipment Installed Material Installed Equipment Supplies Unique </div>											
<div> Drag columns here to group Find: <input type="text" value="Search For..."/> Saved views: Previous View </div>											
Resource Code	Description	Resource File Description	Unit of Measure	Productivity Factor	Default Quantity	Waste % Add-on	Unit Cost (Scale 1)	Currency	Utilization Count	Organizational Category	Geograph Area
+ EAPAV	Asphalt Paver	Standard Equipment Rate...	Hour	1.00	1.00		\$53.40	U.S. Dollar	0.00	Asphalt	
+ EARL	Asphalt Roller	Standard Equipment Rate...	Hour	1.00	1.00		\$21.00	U.S. Dollar	0.00	Asphalt	
+ ECOMP1	Compactor Smooth D...	Standard Equipment Rate...	Hour	1.00	1.00		\$7.00	U.S. Dollar	0.00	Compactor	
+ ECOMP2	Compactor Sheeps F...	Standard Equipment Rate...	Hour	1.00	1.00		\$28.00	U.S. Dollar	0.00	Compactor	
+ ECR110	Crane 110 Ton	Standard Equipment Rate...	Hour	1.00	1.00		\$196.00	U.S. Dollar	0.00	Crane	
+ ECRBT	Boom Truck 15 Ton	Standard Equipment Rate...	Hour	1.00	1.00		\$28.00	U.S. Dollar	0.00	Crane	
+ ECRHC	Hydraulic Crane 25 Ton	Standard Equipment Rate...	Hour	1.00	1.00		\$84.00	U.S. Dollar	0.00	Crane	
+ ED6	Dozer D6	Standard Equipment Rate...	Hour	1.00	1.00		\$84.00	U.S. Dollar	0.00	Dozer	
+ ED8	Dozer D8	Standard Equipment Rate...	Hour	1.00	1.00		\$140.00	U.S. Dollar	0.00	Dozer	
+ EG14G	Grader 14G	Standard Equipment Rate...	Hour	1.00	1.00		\$35.00	U.S. Dollar	0.00	Grader	
+ EG160H	Grader 160H	Standard Equipment Rate...	Hour	1.00	1.00		\$91.00	U.S. Dollar	0.00	Grader	

These resources are the fleet of construction equipment that you own.

3.6.5 RENTED EQUIPMENT RESOURCES

These resources represent the construction equipment that you rent.

- Rented Equipment Resources are also duration driven resources by default
- Contain cost categories for rental and operation cost as well as additional fees
- On the Rental Construction Equipment Record, you will notice a new tab named Quote
 - Quotes will be discussed in detail in *Lesson 8 – Quote Management*
- You will also note the Tax section. You can check the box to Apply Standard Tax, which pulls the Sales Tax percentage defined on the Cost Basis tab in Job Properties, or you can manually specify a unique sales tax rate

Tax

Apply Standard Tax ☐

Unique Sales Tax Rate: 0.00 %

STEP BY STEP – CREATE A RENTAL EQUIPMENT RESOURCE

1. Open the Library Resource Rates Register.
2. Select the **Rented Construction Equipment** tab.
3. Right click on any row header and choose **New**; a new Installed Rented Equipment Rate Record displays.
4. In the Code field, type **RECR + [your initials]**, then press **Tab**.
5. In the Description field, type **Crane 110 Ton**.
6. Click on the resource's **Setup** tab and select **Standard Rental Rate File** from the Resource File drop-down list.
7. Select a **resource** from the Organizational Category drop-down list.

Code: * RECR110 Description: Crane 110 Ton

Setup Charge Rate Quote Billing Rate

Resource File: Standard Rental Rate File User Defined 1:

Geographic Area: User Defined 2:

Wage Zone: User Defined 3:

Org. Category: Crane User Defined 4:

Account Code: User Defined 5:

Cost Drivers: CT Duration User Defined 6:

8. Move back to the Charge Rate tab to follow the step by step on the next page.

3.6.6 EQUIPMENT CONSUMPTION RATES

The Construction Equipment and Rented Construction Equipment Resource Rate Records include consumption rates that will factor with the fuel cost you define on the **Library Job Properties > Fuel Cost** tab to give a fuel cost for your equipment rate.

The screenshot shows the 'Construction Equipment Rate Record' form. The 'Job Properties' tab is active, showing 'Code: * EAPAV' and 'Description: Asphalt Paver'. The 'Setup' tab is selected, with sub-tabs for 'Charge Rate' and 'Billing Rate'. The 'Cost Category Breakdown' table shows a total of \$199.00, with 'OE Fuel' highlighted at \$144.00. The 'Fuel' section shows 'Gasoline' as the fuel type and '12.00 Gallon/Hour' as the consumption rate. A red box highlights the 'Consumption Rate' field, and a red text box states: 'Consumption Rate factored with cost per liter gives you a fuel cost.'

Cost Category Breakdown	Amount
Total	\$199.00
Owned Equipment	\$199.00
OE Ownership	\$0.00
OE Operation	\$199.00
OE Repair Parts	\$0.00
OE Repair Labor	\$0.00
OE Fuel	\$144.00
OE Lube	\$0.00

Fuel

Fuel Type	Consumption Rate
Gasoline	12.00 Gallon/Hour

Consumption Rate factored with cost per liter gives you a fuel cost.

The below figure shows where consumption rates are defined on the Construction Equipment Resource Rate Record.

3.6.7 NON-HOURLY RATE CALCULATOR

For owned and rented construction equipment, the rate entered must be hourly. If your rate is weekly or monthly, you can use the Non-Hourly Rate Calculator on the Construction Equipment Resource Record to come up with the hourly rate.

STEP BY STEP – NON-HOURLY RATE CALCULATOR

1. Refer back to your last entry's rate amount. Under Non-Hourly Period Charge Rates on the right, check the **Calculate Non-Hourly Period Charge Rates** checkbox.
2. On the resulting prompt, click **OK**.
3. In the Period field, select **Weekly**.
4. In the Amount Per Period field, type in a **number value**.
5. Type in a **number of hours** in the Hours Per Period field.


Non-Hourly Period Charge Rates

☒ Calculate Non-Hourly Period Charge Rates for RE Rental

Period:

Amount Per Period:

Hours Per Period:

Code:  Description:

Cost Category Breakdown	Amount
▼ Total	\$200.00
➤ Rented Equipment	\$200.00
➤ Fees	\$0.00
Undefined	\$0.00

6. Click **OK** to close the record.

3.6.8 INSTALLED MATERIALS, INSTALLED EQUIPMENT & SUPPLIES RESOURCES

- Comparing the Installed Material & Equipment resources to those covered so far, you will note that the unit of measure is not Hour for materials, but it is specific to the kind of material. It is a quantity-driven resource, as opposed to duration-driven like your labor and equipment resources
- You will also note the tax field can pull your standard tax settings from the Cost Basis tab in Job Properties, or a unique sales tax rate can be manually entered in each record
- On record for these resource types, you will notice a new tab named Quote. This tab shows up here because you may have to shop around and get quotes for these resources
 - Quotes will be discussed in detail in *Lesson 8 – Quote Management*

- In the Setup tab you will see a field named Waste % Add-on. Here you can account for approximate waste percentages
- Cost categories will differ on each type of resource record

Job Properties		Resource Rate Register ⓘ				
All	Labor	Construction Equipment	Rented Construction Equipment	Installed Material	Installed Equipment	Supplies
Drag columns here to group						
	Resource Code	Description	Unit Cost (Scale 1)	Utilization Count	Unit of Measure	Resource File Description
→	+ MAAM	Asphalt Mix (Finish)	\$32.50	0.00	Ton	Standard Material Rate...
	+ MAC	Asphalt Cement	\$195.00	0.00	Ton	Standard Material Rate...
	+ MACA1-1/2	Coarse Aggregate 1-1/2 In	\$9.10	0.00	Ton	Standard Material Rate...
	+ MAFA	Fine Aggregate	\$7.80	0.00	Ton	Standard Material Rate...
	+ MAHAUL	Aggregate Haul Quarry to P...	\$2.60	0.00	Ton	Standard Material Rate...
	+ MAIA3/4	Intermediate Aggregate 3/4...	\$10.40	0.00	Ton	Standard Material Rate...
	+ MASAND	Sand	\$7.80	0.00	Ton	Standard Material Rate...
	+ MATK	Tack	\$1.30	0.00	Gallon	Standard Material Rate...
	+ MBR	Aggregate Base Rock	\$8.45	0.00	Ton	Standard Material Rate...
	+ MC2000	Concrete 4000 PSI	\$110.50	0.00	Cubic Yard	Standard Material Rate...
	+ MC3500	Concrete 3500 PSI	\$104.00	0.00	Cubic Yard	Standard Material Rate...
	+ MDIRTA	Dirt Class A	\$1.30	0.00	Cubic Yard	Standard Material Rate...
	+ MDIRTB	Dirt Class B	\$6.50	0.00	Ton	Standard Material Rate...

Above is an example of the Installed Material tab in the Library Resource Rate Register.

The following steps walk you through how to create a new material resource in InEight Estimate.

STEP BY STEP – CREATE AN INSTALLED MATERIAL RESOURCE

1. Select **Resource Rates** from the Library landing page.
 - The Resource Rate Register displays
2. Select the **Installed Material** tab.
3. Right click on any row header and select **New** from the drop-down menu.
 - A new Installed Material Rate Record displays
4. In the Code field, type **MGBP + [your initials]**, then press **Tab**.
5. In the Description field, type **Brick Pavers**.
6. Select a **unit of measure** from the Unit of Measure drop-down list.
7. On the resource's Setup tab, under Resource File select **Standard Material Rate File**.

8. On the Charge Rate tab, expand Materials and enter a **number value** in the Installed Materials Amount field.

Code: * MGBPPB Description: Brick Pavers

Setup **Charge Rate** Quote Billing Rate

Cost Category Breakdown	Amount
▼ Total	\$5.00
▼ Materials	\$5.00
Installed Materials	\$5.00
Undefined Materials	\$0.00
► Fees	\$0.00
Undefined	\$0.00

9. Click **OK** to finish adding this resource.

3.6.9 UNIQUE RESOURCES

The Unique resource type is a catch-all and can be used for anything from dump fees and security to creating subcontractors as a resource.

- The Unique resources are the only resources that have all cost categories available, as well as all units of measure
- You will also note the tax field which can pull your standard tax settings from the Cost Basis tab in Job Properties, or a unique sales tax rate can be manually entered in each record
- Quotes will be discussed in detail in *Lesson 8 – Quote Management*

Resource Code	Description	Resource File Description	Unit of Measure	Productivity Factor	Default Quantity	Waste % Add-on	Unit Cost (Scale 1)	Currency	Utilization Count	Organization Category
+ UCRANE	Crane by the Month	Standard Unique Rate...	Month	1.00	1.00	0.00	\$16,500.00	U.S. Dollar	0.00	
+ UOFL	Disposal Fee for Liquids	Standard Unique Rate...	Gallon	1.00	1.00	0.00	\$6.00	U.S. Dollar	0.00	Earthwork
+ UOUMP	Dump Fees	Standard Unique Rate...	Load	1.00	1.00	0.00	\$100.00	U.S. Dollar	0.00	Earthwork
+ UPHAL	Haul to Job Site 15-20 Miles	Standard Unique Rate...	Ton	1.00	1.00	0.00	\$3.00	U.S. Dollar	0.00	Earthwork
+ UPO	Per Diem	Standard Unique Rate...	Day	1.00	1.00	0.00	\$150.00	U.S. Dollar	0.00	
+ USS	Security Service	Standard Unique Rate...	Week	1.00	1.00	0.00	\$500.00	U.S. Dollar	0.00	

RELEVANT LINKS

Video - Create a labor resource

Video - Create owned and rented equipment resources

Video - Material and supplies resources

Video - Create a unique resource

3.7 RESOURCE ASSEMBLIES

A Resource Assembly is a group of resources. You can create an assembly once and then reuse it as needed in multiple cost items whenever the same combination of resources is needed.




The most common use for an assembly is to group labor resources into crews (e.g., Pipe Crew, Concrete Crew); however, any resource (equipment, materials, etc.) may be grouped into an assembly. Utilizing assemblies allows you to estimate faster, since you can add and manage an entire group of resources at once.

You can create assemblies in the Library and import them into job folders the same way you import resources.

3.7.1 LIBRARY RESOURCE ASSEMBLY REGISTER

To open the Library Resource Assembly Register, select the **Library** icon, then select **Resource Assemblies** from the Master Resources section of the Setup tab.

OVERVIEW - LIBRARY RESOURCE ASSEMBLY REGISTER

Section	Description
1	Each row in the register represents a single resource assembly and is defined with an Assembly Code and Assembly Description.
2	Each assembly can be expanded by clicking the plus  icon next to its Assembly Code.
3	Expanding an assembly reveals the list of resources that make up that assembly.

Section	Description
	<ul style="list-style-type: none">Best practice for creating Assembly codes is to use C for Crew Assemblies, M for Material Assemblies, etc., however you can have labor, equipment, and materials in the same assembly

Resource Assembly Register

Drag columns here to group

Find: [Search For...] Saved views: Standard View

	Description	Resource File Description	Quantity	Unit of Measure	Unit Cost	Total Cost	Currency	Organizational Category	Geographic Area	Wage Zone	Man Count	
→ - CCONC	Concrete Crew	Standard Assembly...	1.00	Hour	\$330.38	\$330.38	U.S. Dollar	Concrete				
3	Row Number	Resource Code	Description	Quantity	Unit of Measure	Unit Cost	Currency	Cost Driver	Resource File Description	Organizational Category	Geographic Area	Wage Zone
	1	LC2	Carpenter Journeyman	2.00	Each	\$28.92	U.S. Dollar	CI Dura...	Standard Labor Rate File	Carpenter	Southwest	Wage Zon...
	2	LF2	Finisher	1.00	Each	\$28.07	U.S. Dollar	CI Dura...	Standard Labor Rate File	Finisher - Conc...	Southwest	Wage Zon...
	3	LIW1	Iron Worker	1.00	Each	\$35.55	U.S. Dollar	CI Dura...	Standard Labor Rate File	Iron Worker	Southwest	Wage Zon...
	4	LL2	Laborer	1.00	Each	\$26.37	U.S. Dollar	CI Dura...	Standard Labor Rate File	Laborer	Southwest	Wage Zon...
	5	ECRHC	Hydraulic Crane 25 Ton	1.00	Each	\$84.00	U.S. Dollar	CI Dura...	Standard Equipment Rate...	Crane		
	6	LC1	Carpenter Apprentice	1.00	Each	\$27.48	U.S. Dollar	CI Dura...	Standard Labor Rate File	Carpenter	Southwest	Wage Zon...
	7	LO2	Operator Class 2	1.00	Each	\$30.21	U.S. Dollar	CI Dura...	Standard Labor Rate File	Operator	Southwest	Wage Zon...
	8	ETFT	Flatbed Truck	1.00	Each	\$7.00	U.S. Dollar	CI Dura...	Standard Equipment Rate...	Truck		
1	9	LC3	Carpenter Foreman	1.00	Each	\$33.87	U.S. Dollar	CI Dura...	Standard Labor Rate File	Carpenter	Southwest	Wage Zon...
+ CGRADE	Grading Crew	Standard Assembly...	1.00	Hour	\$175.06	\$175.06	U.S. Dollar	Earthwork				
+ CMAINT	Equipment Maintenance	Standard Assembly...	1.00	Each	\$58.00	\$58.00	U.S. Dollar	Mechanic				
+ CPAVE	Paving Crew	Standard Assemb...	1.00	Hour	\$346.04	\$346.04	U.S. Dollar	Asphalt				

3.7.2 RESOURCE ASSEMBLY RECORD

To open an existing Resource Assembly Record, right click on the row header of an assembly (row) on the Resource Assembly Register and select Open.

OVERVIEW - RESOURCE ASSEMBLY RECORD

Name		Description
1	Assembly Code and Description	Each assembly is defined with an assembly Code and an assembly Description.
2	Quantity and Unit of Measure	Each assembly has a quantity and unit of measure. The default is 1 EA. For crew assemblies with all hourly duration driven resources, it is a best practice to change the Qty to Hour, so that when used on a cost item, it will show you the assembly's unit cost per hour.
3	Assembly Details	The rows in the Assembly Details register represent the resources that make up the resource assembly.
4	Notes	An area where the estimators make notes for records related to the

Name	Description
------	-------------

resource assemblies for work orders which is commonly performed by a type of crew.

Resource Assembly Register

Resource Assembly Record

Code: * CCONC

Description: Concrete Crew

Resource File: Standard Assembly File

Tag 1:

Geographic Area:

Tag 2:

Wage Zone:

Tag 3:

Org. Category: Concrete

Man Count: 8.00

Equip Count: 2.00

Unit Cost: \$330.38

Currency: U.S. Dollar

Last Changed By:

Last Changed On:

Notes:

Cost Summary

Assembly Details

Drag columns here to group

Find: [Search For...]

Saved views: Previous View

Row Number	Resource Code	Description	Quantity	Unit of Measure	Unit Cost	Currency	Cost Driver	Resource File Description	Organizational Category	Geographic Area	Wage Zone
1	LC2	Carpenter Journey...	2.00	Each	\$28.92	U.S. Dollar	CI Duration	Standard Labor Rate File	Carpenter	Southwest	Wage 2
2	LF2	Finisher	1.00	Each	\$28.07	U.S. Dollar	CI Duration	Standard Labor Rate File	Finisher - Concrete	Southwest	Wage 2
3	LIW1	Iron Worker	1.00	Each	\$35.55	U.S. Dollar	CI Duration	Standard Labor Rate File	Iron Worker	Southwest	Wage 2
4	LI2	Laborer	1.00	Each	\$36.37	U.S. Dollar	CI Duration	Standard Labor Rate File	Laborer	Southwest	Wage 2

3.7.2.1 PRODUCTIVITY RATE INDICATOR IN THE CBS REGISTER

The Productivity Indicator shows the field that contains the as-entered value and is driving the estimate for that cost item. This appears as an arrow aligned to the left of the cell as shown below.

Description	Forecast (TJO) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Currency	Hours (Duration driven)	Hours (Non-Duration driven)
308	20.00	Mile	\$228,294.37	\$4,565,887.34	U.S. Dollar	5,191.90	15.36
Prime Bond	1.00	Lump Sum	\$39,357.30	\$39,357.30	U.S. Dollar		
Price % Add-On	1.00	Lump Sum	\$225,515.71	\$225,515.71	U.S. Dollar		
Job Financing	1.00	Lump Sum	\$0.00	\$0.00	U.S. Dollar		
Indirect Cost Escalation	1.00	Lump Sum	\$0.00	\$0.00	U.S. Dollar		
Direct Cost Escalation	1.00	Lump Sum	\$0.00	\$0.00	U.S. Dollar		
Indirect Cost Add-On	1.00	Lump Sum	\$0.00	\$0.00	U.S. Dollar		
Job Management & Equipment	1.00	Lump Sum	\$157,096.28	\$157,096.28	U.S. Dollar	800.00	0.00
General Expense	1.00	Lump Sum	\$4,200.00	\$4,200.00	U.S. Dollar	0.00	0.00
Direct Cost Add-On	1.00	Lump Sum	\$80,720.35	\$80,720.35	U.S. Dollar		
Hobolization	1.00	Lump Sum	\$13,335.70	\$13,335.70	U.S. Dollar	▶ 90.00	0.00
Clearing & Grubbing	10.00	Acre	\$3,918.50	\$39,184.97	U.S. Dollar	80.00	0.00
Unclassified Excavation	50,000.00	Cubic Yard	\$2.21	\$110,560.40	U.S. Dollar	294.67	0.00
Excavation	50,000.00	Cubic Yard	\$0.66	\$33,100.80	U.S. Dollar	128.00	0.00
Embankment	50,000.00	Cubic Yard	\$1.55	\$77,499.60	U.S. Dollar	166.67	0.00

Being able to see productivity drivers on the CBS register makes it easier to review and modify the estimate as a whole while reducing the potential to accidentally overwrite a manually entered data. Follow the step by step below to create a Resource Assembly.

STEP BY STEP – CREATE A RESOURCE ASSEMBLY

- From the Library landing page, under the Master Resources section of the Setup tab, select **Resource Assemblies**.
 - The Resource Assembly Register is shown.
- Right click on any **row header** and select **New** from the drop-down menu.
 - A new Resource Assembly Record is shown.
- In the Code field, type **CEXC + [your initials]** as the unique code for the assembly.
- Add a **description** in the Description field.
- In the Assembly Details register at the bottom of the screen, click in the **Resource Code** column in the first blank row, and then select the **Resource** icon that appears in the cell.
- On the Labor tab of the resulting register, select the resource with the Description: **LL2Laborer** and click **OK** to add this resource to the assembly.
- Add two additional resources.

TIP

You can use the Ctrl and Shift keys to select multiple resources at once.

- Click **OK** to save and close the new assembly.

Resource Assembly Register					
Drag columns here to group					
	Code	Description	Resource File Description	Quantity	Unit of Measure
	+ CCONC	Concrete Crew	Standard Assembly...	1.00	Hour
→	+ CEXCPB	Excavation Assembly		1.00	Each
	+ CGRADE	Grading Crew	Standard Assembly...	1.00	Hour
	+ CMAINT	Equipment Maintenance	Standard Assembly...	1.00	Each

RELEVANT LINKS

Video - Resource assemblies

EXERCISE 3.1 – CREATE RESOURCES & RESOURCE ASSEMBLIES

In this exercise, you will practice creating resources and assemblies in the InEight Estimate Library. In the Library Resource Rate Register, create resources with the following variables:

Labor Resource

Resource Code	LSFA	Wage Zone	Wage Zone A
Resource Description	Field Administrator	Organizational Category	Supervision
Geographic Area	Southwest	Scale 1 Labor Base	\$33.45
Scale 1 Premium	2 percent	Scale 1 Subsistence	\$0.47
Resource File	Standard Labor Rate File		

Select the checkbox for **Use Base Wage Factors for Scales 2 and 3**.

Scale 2 Factor: 1.50 x Base Wage. **Scale 3 Factor:** 2.00 x Base Wage.

Rented Construction Equipment Resources

Rented Construction Equipment Resource

Resource Code	RPW3000	RE Rental Amount	\$3.40
Resource Description	Pressure Washer 3000 PSI	Organizational Category	Clean & Inspect
Resource File	Standard Rental Rate File		

Installed Material Resource

Resource Code	MCCB	Installed Materials Amount	\$300.00
Resource Description	Pre-Cast Concrete Catch Basin	Organizational Category	Concrete
Resource File	Standard Material Rate File		
Unit of Measure	Each		

Uncheck the box for **Apply Standard Tax** and enter a **Unique Sales Tax Rate:** 6%

In the Library Resource Assembly Rate Register, create resource assemblies with the following codes, descriptions, and resources.

Assembly #1

Assembly Code	CBRIDGE	
Assembly Description	Bridge Crew	
Resource File	Standard Assembly File	
Unit of Measure	Hour	
Select Wage Zone A Labor Resources for this Assembly.		
Resources on Assembly	Resource Description	Resource Quantity
LC3	Carpenter Foreman	1
LL2	Laborer	2
LF2	Finisher	1
LC2	Carpenter Journeyman	2

Assembly #2

Assembly Code	CRIPRAP	
Assembly Description	Rip Rap Replacement Crew	
Resource File	Standard Assembly File	
Unite of Measure	Hour	
Select Wage Zone A Labor Resources for this Assembly.		
Resources on Assembly	Resource Description	Resource Quantity
LT2	Teamster Foreman	.5
LO3	Operator Class 3	1
LL2	Laborer	2
EX510	Backhoe JD 510	1
ETPU	Pickup	1
EL950	Loader 950	1

You should end up with similar results:

Resource Code	Resource File Description	Organizational Category	Geographic Area	Wage Zone	Description	Unit of Measure
LSFA	Standard Labor Rate File	Supervision	Southwest		Field Administrator	Hour
	Scale	Total	Labor	Labor Base	Labor Burden	Labor Fringes
→	1	\$33.92	\$33.92	\$33.45	\$0.47	\$0.47
	2	\$50.18	\$50.18	\$50.18	\$0.00	\$0.00
	3	\$66.90	\$66.90	\$66.90	\$0.00	\$0.00

Resource Code	Description	Resource File Description	Unit of Measure	Unit Cost (Scale 1)	Currency	Organizational Category
RPW3000	Pressure Washer 3000 PSI	Standard Rental Rate File	Hour	\$3.40	U.S. Dollar	Clean & Inspect
	Total	Rented Equipment	RE Rental	RE Rent Expense	RE Overhead	RE Finance Expense
	\$3.40	\$3.40	\$3.40	\$0.00	\$0.00	\$0.00
						RE Insurance
						RE License
						RE

Resource Code	Description	Resource File Description	Unit of Measure	Unit Cost (Scale 1)	Currency	Organizational Category
MCCB	Pre-Cast Concrete Catch Basin	Standard Material Rate File	Each	\$318.00	U.S. Dollar	Concrete
	Total	Materials	Installed Materials	Undefined Materials	Fees	Sales Taxes
	\$318.00	\$300.00	\$0.00	\$300.00	\$18.00	\$18.00
						Undefined Fees
						Undefined
						Billing Rate
						Billing Mark

Assembly Code	Assembly Description	Resource File Description	Quantity	Unit of Measure	Unit Cost	Total Cost	Currency	Organizational Category	Geographic Area	Wage Zone
CBRIDGE	Bridge Crew	Standard Assembly File	1.00	Hour	\$170.11	\$170.11	U.S. Dollar			
	Row Number	Resource Code	Description	Quantity	Unit of Measure	Unit Cost	Currency	Cost Driver	Resource File Description	Organizational Category
	1	LC2	Carpenter Journeyman	2.00	Each	\$28.92	U.S. Dollar	CI Duration	Standard Labor Rate File	Carpenter
	2	LC3	Carpenter Foreman	1.00	Each	\$31.47	U.S. Dollar	CI Duration	Standard Labor Rate File	Carpenter
	3	LF2	Finisher	1.00	Each	\$28.07	U.S. Dollar	CI Duration	Standard Labor Rate File	Finisher - Concrete
	4	LL2	Laborer	2.00	Each	\$26.37	U.S. Dollar	CI Duration	Standard Labor Rate File	Laborer

Code	Description	Resource File Description	Quantity	Unit of Measure	Unit Cost	Total Cost	Currency	Organizational Category	Geographic Area	Wage Zone
CRIPRAP	Rip Rap Replacement Crew	Standard Assembly...	1.00	Hour	\$152.89	\$152.89	U.S. Dollar			
	Row Number	Resource Code	Description	Quantity	Unit of Measure	Unit Cost	Currency	Cost Driver	Resource File Description	Organizational Category
	1	LL2	Laborer	2.00	Each	\$26.37	U.S. Dollar	CI Duration	Standard Labor Rate File	Laborer
	2	LO3	Operator Class 3	1.00	Each	\$30.62	U.S. Dollar	CI Duration	Standard Labor Rate File	Operator
	3	LT2	Teamster Foreman	0.50	Each	\$32.32	U.S. Dollar	CI Duration	Standard Labor Rate File	Truck Driver - Teamster
	4	EL950	Loader 950	1.00	Each	\$14.18	U.S. Dollar	CI Duration	Standard Equipment Rate...	Loader
	5	ETPU	Pickup	1.00	Each	\$4.20	U.S. Dollar	CI Duration	Standard Equipment Rate...	Truck
	6	EX510	Backhoe JD 510	1.00	Each	\$35.00	U.S. Dollar	CI Duration	Standard Equipment Rate...	Excavator

Congratulations, you have completed this exercise!

3.8 IMPORTING RESOURCES

The following procedures inform you how to setup resources in InEight Estimate from an excel sheet.

NOTE

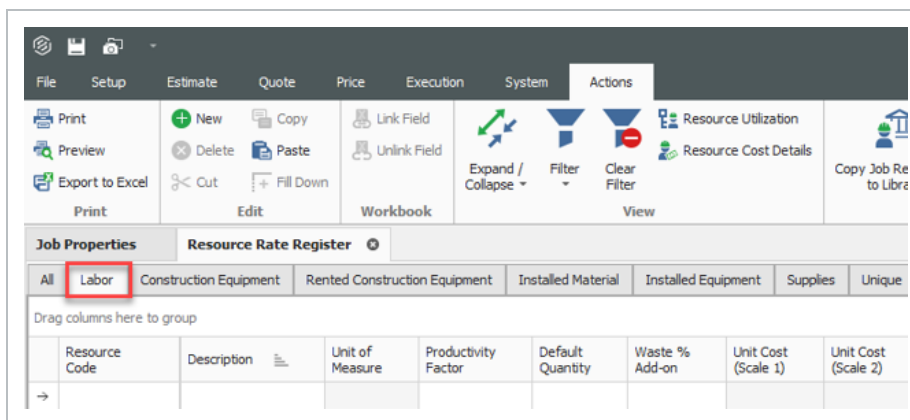
Use of this lesson will draw from other sections of InEight Estimating Manual. Basic understanding of the Sort, Group, Filter, Excel integration functionality in InEight Estimate is required.

3.8.1 OPEN RESOURCE RATE REGISTER

You can create resources within the Resource Rate Register. This is the location to build out the structure of those resources.

STEP BY STEP – OPENING THE LABOR TAB

1. Open the Job Folder or Library that you're going to be working in.
2. From the Ribbon, select the **Setup** tab.
3. Under the Resources section, select **Resource Rates**. The Resource Rate Register opens.
4. Select the tab you want to add resources to.



The layout of this register and excel file is up to the organization and the decisions that are made during the detail design phase. A basic excel file will be provided to your organization as a starting point to work from. If that can't be located, you can easily build one utilizing the views within InEight Estimate.

3.8.1.1 CREATING A LABOR SAVED VIEW - RESOURCE RATE REGISTER

You can create a view to mirror both the register and excel sheets to easily bring information back and forth from the two applications.

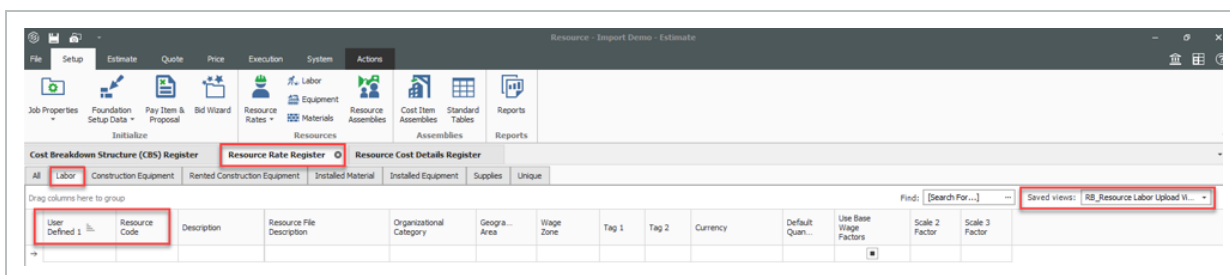
Example of columns:

- User Defined 1
- Resource Code
- Description
- Resource File Description - Validated field
- Geographic Area - Validated field
- Wage Zone - Validated field
- Organizational Category - Validated field
- Tag 1 - Validated field
- Tag 2 - Validated field
- Currency - Validated field
- Default Quantity
- Use Base Wage Factors - Scale Factors
- Scale Factor 2 - Scale Factors
- Scale Factor 3 - Scale Factors

NOTE

For more information on Validated Tags field, see Validated Tags topic. Scale Factors aren't required if you are manually applying rates to each cost category scale.

The view should appear as shown below with **User Defined 1** in the first column. This field is used for sorting and arranging data accurately moving between Estimate and Excel. You are not limited to UDF 1 and can choose to utilize a field of their choice for sorting.



3.8.2 SETTING UP THE EXCEL FILE

Go to the Excel sheet and make sure the information in the columns shown in the screenshot are filled out. Basic concepts to keep in mind regarding the excel file:

Sort Code - This column needs to have a high sequential number such as **10000**. This is very important to assign as it will help us authenticate all the labor rates.

Resource Code - A unique Naming convention to be assigned to every labor resource. In this example we have all labor resource starting with a **L** followed by the letters that represent the resource description.

Labor Base - The base wage of the labor resource is entered here. Estimate does not allow \$ sign to be pasted, which is why the cells for the Base column are formatted to **Number**.

UDF1	Resource Code	Description	Resource File Description	Organizational Category	Geographic Area	Wage Zone	Tag 1	Tag 2	Currency	Default Quantity	Use Base Wage Factors	Scale Factor 2	Scale Factor 3	Total	Labor Base	Tr
10000	LC2	Carpenter Journeyman	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$28.92	22.10	
10000	LSUPP	Foreman Pipe	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$29.92	23.10	
10000	LSUW	Foreman Iron	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$30.92	24.10	
10000	LSUC	Foreman Civil	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$31.92	25.10	
10004	LSUBM	Foreman Boilermaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$32.92	26.10	
10005	LPF1	Lead Pipe Fabricator	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$33.92	27.10	
10006	LPF2	Journeyman Pipefitter	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$34.92	28.10	
10007	LPF3	Pipefitter A	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$35.92	29.10	
10008	LPF4	Pipefitter B	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$36.92	30.10	
10009	LBM1	Lead Boilermaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$37.92	31.10	
10010	LBM2	Journeyman Boilermaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$38.92	32.10	

3.8.2.2 CREATING THE RESOURCE

Follow this procedure once you have information filled out in excel.

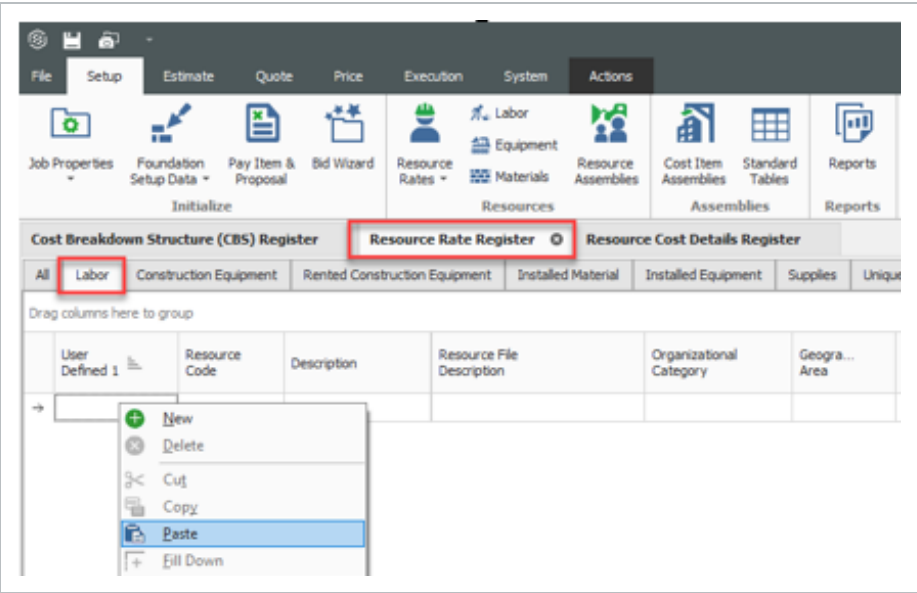
STEP BY STEP – CREATING THE RESOURCE

1. Open the excel file.
2. Sort the sheet by sequential number in the **Sort Code** field.
3. Highlight the cells you want to bring into the estimate.
4. Copy the cells using right click and selecting **Copy** from the context menu.

UDF1	Resource Code	Description	Resource File Description	Organizational Category	Geographic Area	Wage Zone	Tag 1	Tag 2	Currency	Default Quantity	Use Base Wage Factors	Scale Factor 2	Scale Factor 3	Total	Labor Base	Tr
10000	LC2	Carpenter Journeyman	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$28.92	22.10	
10000	LSUPP	Foreman Pipe	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$29.92	23.10	
10000	LSUW	Foreman Iron	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$30.92	24.10	
10000	LSUC	Foreman Civil	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$31.92	25.10	
10004	LSUBM	Foreman Boilermaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$32.92	26.10	
10005	LPF1	Lead Pipe Fabricator	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$33.92	27.10	
10006	LPF2	Journeyman Pipefitter	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$34.92	28.10	
10007	LPF3	Pipefitter A	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$35.92	29.10	
10008	LPF4	Pipefitter B	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$36.92	30.10	
10009	LBM1	Lead Boilermaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$37.92	31.10	
10010	LBM2	Journeyman Boilermaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1	TRUE	1.50	2.00	\$38.92	32.10	

5. Open Estimate to the **Resource Rate Register**.

6. Select the **User Defined 1** column in the Labor tab of the Resource Rate Register.



- 7. Right click the empty cell and select **Paste** from the context menu. A pop up will appear asking **Are you sure you want to insert the selected values?**
- 8. Select **Yes** to confirm inserting the selected values.
- 9. The cells you copied from the excel sheet are now copied into the Resource Rate Register. The Sort code data is pasted in the User defined 1 column. Resource Code & Resource description data is pasted as well.

The screenshot shows the 'Resource Rate Register' window with the 'Labor' tab active. The table displays a list of labor resources. The 'User Defined 1' column is highlighted with a red box. The table contains columns for User Defined 1, Resource Code, Description, Resource File Description, Organizational Category, Geographical Area, Wage Zone, Tag 1, Tag 2, Currency, Default Quantity, Use Base Wage Factors, Scale 2 Factor, and Scale 3 Factor.

User Defined 1	Resource Code	Description	Resource File Description	Organizational Category	Geographical Area	Wage Zone	Tag 1	Tag 2	Currency	Default Quantity	Use Base Wage Factors	Scale 2 Factor	Scale 3 Factor
10000	LC2	Carpenter Journey...	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	0.00	0.00
10001	LSUPF	Foreman Pipe	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	0.00	0.00
10002	LSUW	Foreman Iron	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	0.00	0.00
10003	LSUC	Foreman Civil	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	0.00	0.00
10004	LSBM	Foreman Boilemaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	0.00	0.00
10005	LPF1	Lead Pipe Fabricator	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	0.00	0.00
10006	LPF2	Journeyman Pipefitter	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	0.00	0.00
10007	LPF3	Pipefitter A	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	0.00	0.00
10008	LPF4	Pipefitter B	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	0.00	0.00
10009	LBH1	Lead Boilemaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	0.00	0.00
10010	LBH2	Journeyman Boilem...	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	0.00	0.00

10.

NOTE

For Make sure the sorting is on User Defined 1 column. This allows us to see the information being sorted similar to our data in excel file. Base Wage Factors need to be flagged to turn on with the check box. Your first copy and paste should have activated them. You need to copy and paste again in order to apply the factors.

		Resource Cost Factors	
tors	*Scale Factor 2	*Scale Factor 3	Total Labor
	1.50	2.00	\$28.92
	1.50	2.00	\$29.92
	1.50	2.00	\$30.92
	1.50	2.00	\$31.92
	1.50	2.00	\$32.92
	1.50	2.00	\$33.92
	1.50	2.00	\$34.92
	1.50	2.00	\$35.92
	1.50	2.00	\$36.92
	1.50	2.00	\$37.92
	1.50	2.00	\$38.92

Cost Breakdown Structure (CBS) Register												Resource Rate Register		Resource Cost Details Register			
All	Labor	Construction Equipment	Rented Construction Equipment	Installed Material	Installed Equipment	Supplies	Unique										
Drag columns here to group												Find: [Search For...]					
User Defined 1	Resource Code	Description	Resource File Description	Organizational Category	Geogra... Area	Wage Zone	Tag 1	Tag 2	Currency	Default Quan...	Use Base Wage Factors	Scale 2 Factor	Scale 3 Factor				
→ + 10000	LC2	Carpenter Journey...	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	1.50	2.00				
+ 10001	LSUPF	Foreman Pipe	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	1.50	2.00				
+ 10002	LSUIW	Foreman Iron	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	1.50	2.00				
+ 10003	LSUC	Foreman Civil	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	1.50	2.00				
+ 10004	LSBM	Foreman Boilemaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	1.50	2.00				
+ 10005	LPF1	Lead Pipe Fabricator	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	1.50	2.00				
+ 10006	LPF2	Journeyman Pipefitter	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	1.50	2.00				
+ 10007	LPF3	Pipefitter A	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	1.50	2.00				
+ 10008	LPF4	Pipefitter B	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	1.50	2.00				
+ 10009	LBM1	Lead Boilemaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	1.50	2.00				
+ 10010	LBM2	Journeyman Boilem...	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	Non Union	Hourly	U.S. Dollar	1.00	<input checked="" type="checkbox"/>	1.50	2.00				

3.8.2.3 RESOURCE COST DETAILS

Labor resources are now in the system a user can apply rates to those resources.

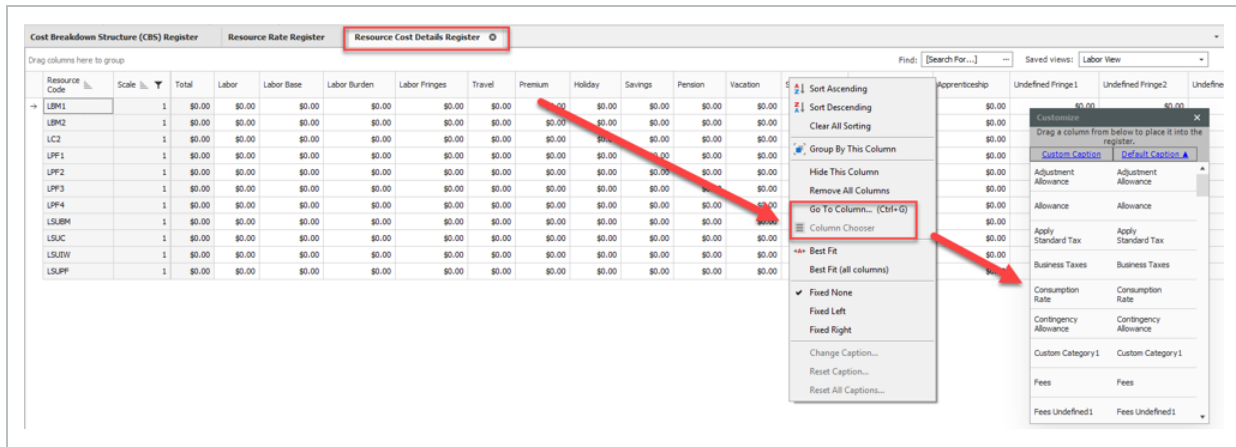
STEP BY STEP – RESOURCE COST DETAIL

1. From the Ribbon, select the **Actions** tab.
2. Under the View section, select the Resource **Cost Details** option. The **Resource Cost Details Register** opens.

3. **NOTE** Create a view to mirror the accompanying excel sheet or create one to bring in the associated resource cost in the details register.

4. From the Saved views drop down, select the **Labor** view to filter down to only labor resources.

5. Right click a column header and select **Column Chooser**.
6. Drag and drop the columns into the view identified below.



Example of columns – The level of detail and utilization of specific cost categories is a decision for each organization:

- User Defined 1 - Non editable fields from resource rates register
- Resource Code - Non editable fields from resource rates register
- Description - Non editable fields from resource rates register
- Resource File Description - Non editable fields from resource rates register
- Geographic Area - Non editable fields from resource rates register
- Wage Zone - Non editable fields from resource rates register
- Organizational Category - Non editable fields from resource rates register
- Scale - Non editable fields from resource rates register
- Labor Base
- Travel
- Premium
- Holiday
- Savings
- Pension
- Vacation
- Subsistence
- Health & Welfare

- Apprenticeship
- Undefined Fringe 1
- Undefined Fringe 2
- Undefined Labor Fringes
- Bodily Injury & Property Damage
- Workers Compensation
- Undefined Insurance1
- Undefined Insurance2
- Undefined Labor Insurance
- FICA
- FUTA
- SUTA
- Undefined Tax1
- Undefined Labor Taxes
- Undefined Labor Burden
- Undefined Labor
- Construction Supplies
- Undefined Materials
- Undefined
- Billing Rate
- Billing Rate Markup
- Billing Rate Markup %

3.8.3 FILTER/SORT/PASTE - RESOURCE COST DETAILS REGISTER

The Labor upload view brings in the columns required to enter Labor base, burdens etc. Every Labor resource has three rows created with Scales 1,2,3. The Scale Column is used to setup Straight time, Over time, Double time.

Cost Breakdown Structure (CBS) Register

Resource Rate Register

Resource Cost Details Register

Drag columns here to group

Resource Code	Scale	Total	Labor	Labor Base	Labor Burden	Labor Fringes	Travel
LBM1	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0
LBM1	2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0
LBM1	3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0
LBM2	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0

STEP BY STEP – FILTER RESOURCE COST DETAIL REGISTER

1. From the Scale column header, click the filter icon..
2. Set the From and To values to 1.

Cost Breakdown Structure (CBS) Register

Resource Rate Register

Resource Cost Details Register

Labor Rate Record

Drag columns here to group

User Defined 1	Resource Code	Description	Resource File Description	Organizational Category	Geographic Area	Wage Zone	Scale	Total	Labor Base	Travel	Pre
→ 10009	LBM1	Lead Boilermaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A					\$0.00
10010	LBM2	Journeyman Boilermaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A					\$0.00
10000	LC2	Carpenter Journeyman	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A					\$0.00
10005	LPF1	Lead Pipe Fabricator	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A					\$0.00
10006	LPF2	Journeyman Pipefitter	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A					\$0.00
10007	LPF3	Pipefitter A	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A					\$0.00
10008	LPF4	Pipefitter B	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A					\$0.00
10004	LSUBM	Foreman Boilermaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A					\$0.00
10003	LSUC	Foreman Civil	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A					\$0.00
10002	LSUIW	Foreman Iron	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A					\$0.00
10001	LSUPF	Foreman Pipe	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A					\$0.00

Values

Numeric Filters

From 1 To 1

Clear Filter

Custom

Close

3. Back on the excel spreadsheet, highlight the base rates to bring in.
4. Right click and select **Copy** in the context menu.

V30

A

B

C

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V

W

X

Y

Z

1 Required

2 Validated Field

3 Not Required

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

Resource Rate Register

User Defined 1

Resource Code

Description

*Scale Factor 2

*Scale Factor 3

Total

Labor Base

Travel

Premium

Holiday

Savings

Pension

Vacation

Subsistence

Health & Welfare

Apprenticeship

Undefined Fringe 1

Undefined Fringe 2

10000 LC2

Carpenter Journeyman

1.50

2.00

\$28.92

22.10

0.00

0.00

0.22

0.00

0.66

0.44

0.00

0.66

0.00

0.00

0.00

0.00

10001 LSUPF

Foreman Pipe

1.50

2.00

\$29.92

23.10

0.00

0.00

0.22

0.00

0.66

0.44

0.00

0.66

0.00

0.00

0.00

0.00

10002 LSUIW

Foreman Iron

1.50

2.00

\$30.92

24.10

0.00

0.00

0.22

0.00

0.66

0.44

0.00

0.66

0.00

0.00

0.00

0.00

10003 LSUC

Foreman Civil

1.50

2.00

\$31.92

25.10

0.00

0.00

0.22

0.00

0.66

0.44

0.00

0.66

0.00

0.00

0.00

0.00

10004 LSUBM

Foreman Boilermaker

1.50

2.00

\$32.92

26.10

0.00

0.00

0.22

0.00

0.66

0.44

0.00

0.66

0.00

0.00

0.00

0.00

10005 LPF1

Lead Pipe Fabricator

1.50

2.00

\$33.92

27.10

0.00

0.00

0.22

0.00

0.66

0.44

0.00

0.66

0.00

0.00

0.00

0.00

10006 LPF2

Journeyman Pipefitter

1.50

2.00

\$34.92

28.10

0.00

0.00

0.22

0.00

0.66

0.44

0.00

0.66

0.00

0.00

0.00

0.00

10007 LPF3

Pipefitter A

1.50

2.00

\$35.92

29.10

0.00

0.00

0.22

0.00

0.66

0.44

0.00

0.66

0.00

0.00

0.00

0.00

10008 LPF4

Pipefitter B

1.50

2.00

\$36.92

30.10

0.00

0.00

0.22

0.00

0.66

0.44

0.00

0.66

0.00

0.00

0.00

0.00

10009 LBM1

Lead Boilermaker

1.50

2.00

\$37.92

31.10

0.00

0.00

0.22

0.00

0.66

0.44

0.00

0.66

0.00

0.00

0.00

0.00

10010 LBM2

Journeyman Boilermaker

1.50

2.00

\$38.92

32.10

0.00

0.00

0.22

0.00

0.66

0.44

0.00

0.66

0.00

0.00

0.00

0.00

5. Go to Estimate. Right click and select **Paste** from the context menu.

Resource Rate Register				Resource Cost Details Register													
User Defined 1	Resource Code	Description	*Scale Factor 2	*Scale Factor 3	Total	Labor Base	Travel	Premium	Holiday	Savings	Pension	Vacation	Subsistence	Health & Welfare	Apprenticeship	Undefined Fringe 1	Undefined Fringe 2
10000	LC2	Carpenter Journeyman	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10001	LSUPF	Foreman Pipe	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10002	LSUIW	Foreman Iron	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10003	LSUC	Foreman Civil	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10004	LSUBM	Foreman Boilermaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10005	LPF1	Lead Pipe Fabricator	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10006	LPF2	Journeyman Pipefitter	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10007	LPF3	Pipefitter A	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10008	LPF4	Pipefitter B	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10009	LBM1	Lead Boilermaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10010	LBM2	Journeyman Boilermaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

6. You will be prompted with a **Are you sure you want to insert these values?** message as before. Select **Yes** to continue.

3.8.4 MANUAL SET-UP OF SCALES 2 & 3 - OPTIONAL

If the organization wants to have more in-depth cost details for each scale rather than using scale factors the same procedure will be utilized to copy Labor burden, fringes, and other add-ons to setup Scale 2 & Scale 3.

NOTE

For Base Wage Factor Columns will not be active if your organization is using method 2.

3.8.4.4 RESOURCE RATE REGISTER

Cost Breakdown Structure (CBS) Register Resource Rate Register Resource Cost Details Register Labor Rate Record												
All	Labor	Construction Equipment	Rented Construction Equipment	Installed Material	Installed Equipment	Supplies	Unique					
Drag columns here to group								Find: [Search For...]		Saved views: Previous		
Resource Code	Resource Type	Description	Resource File Description	Unit of Measure	Productivity Factor	Default Quantity	Waste % Add-on	Unit Cost (Scale 1)	Unit Cost (Scale 2)	Unit Cost (Scale 3)	Currency	Use Base Wage Factors
+ LBM1	Labor Rate	Lead Boilermaker	Standard Labor Rate File	Hour	1.00	1.00	1.00	\$37.90	\$46.65	\$62.20	U.S. Dollar	<input type="checkbox"/>
+ LBM2	Labor Rate	Journeyman Boilermaker	Standard Labor Rate File	Hour	1.00	1.00	1.00	\$38.90	\$48.15	\$64.20	U.S. Dollar	<input type="checkbox"/>
+ LC2	Labor Rate	Carpenter Journeyman	Standard Labor Rate File	Hour	1.00	1.00	1.00	\$28.90	\$33.15	\$44.20	U.S. Dollar	<input type="checkbox"/>
+ LPF1	Labor Rate	Lead Pipe Fabricator	Standard Labor Rate File	Hour	1.00	1.00	1.00	\$33.90	\$40.65	\$54.20	U.S. Dollar	<input type="checkbox"/>
+ LPF2	Labor Rate	Journeyman Pipefitter	Standard Labor Rate File	Hour	1.00	1.00	1.00	\$34.90	\$42.15	\$56.20	U.S. Dollar	<input type="checkbox"/>
+ LPF3	Labor Rate	Pipefitter A	Standard Labor Rate File	Hour	1.00	1.00	1.00	\$35.90	\$43.65	\$58.20	U.S. Dollar	<input type="checkbox"/>
+ LPF4	Labor Rate	Pipefitter B	Standard Labor Rate File	Hour	1.00	1.00	1.00	\$36.90	\$45.15	\$60.20	U.S. Dollar	<input type="checkbox"/>
+ LSUBM	Labor Rate	Foreman Boilermaker	Standard Labor Rate File	Hour	1.00	1.00	1.00	\$32.90	\$39.15	\$52.20	U.S. Dollar	<input type="checkbox"/>
+ LSUC	Labor Rate	Foreman Civil	Standard Labor Rate File	Hour	1.00	1.00	1.00	\$31.90	\$37.65	\$50.20	U.S. Dollar	<input type="checkbox"/>
+ LSUIW	Labor Rate	Foreman Iron	Standard Labor Rate File	Hour	1.00	1.00	1.00	\$30.90	\$36.15	\$48.20	U.S. Dollar	<input type="checkbox"/>
+ LSUPF	Labor Rate	Foreman Pipe	Standard Labor Rate Rate File	Hour	1.00	1.00	1.00	\$29.90	\$34.65	\$46.20	U.S. Dollar	<input checked="" type="checkbox"/>

3.8.4.5 RESOURCE COST DETAILS REGISTER

Cost Breakdown Structure (CBS) Register Resource Rate Register Resource Cost Details Register Labor Rate Record									
Drag columns here to group									
User Defined 1	Resource Code	Description	Resource File Description	Organizational Category	Geographic Area	Wage Zone	Scale	Total	
→ 10000	LC2	Carpenter Journeyman	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	2	\$33.15	
10001	LSUPF	Foreman Pipe	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	2	\$34.65	
10002	LSUITW	Foreman Iron	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	2	\$36.15	

STEP BY STEP – MANUAL SETUP OF SCALES

1. From the Scale column header, click the filter icon..
2. Set the From and To values to 2.

Cost Breakdown Structure (CBS) Register

Resource Rate Register

Resource Cost Details Register

Labor Rate Record

Drag columns here to group

User Defined 1	Resource Code	Description	Resource File Description	Organizational Category	Geographic Area	Wage Zone	Scale	Total	Labor Base	Travel
→ 10000	LC2	Carpenter Journeyman	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	2	\$0.00		
10001	LSUPF	Foreman Pipe	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	2	\$0.00		
10002	LSUIW	Foreman Iron	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	2	\$0.00		
10003	LSUC	Foreman Civil	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	2	\$0.00		
10004	LSUBM	Foreman Boilermaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	2	\$0.00		
10005	LPF1	Lead Pipe Fabricator	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	2	\$0.00		
10006	LPF2	Journeyman Pipefitter	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	2	\$0.00		
10007	LPF3	Pipefitter A	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	2	\$0.00		
10008	LPF4	Pipefitter B	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	2	\$0.00		
10009	LBM1	Lead Boilermaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	2	\$0.00		
10010	LBM2	Journeyman Boilermaker	Standard Labor Rate File	Carpenter	Southwest	Wage Zone A	2	\$0.00		

Values

Numeric Filters

From 2 To 2

Clear Filter

Custom

Close

- Back on the excel spreadsheet, highlight the base rates to bring in.
- Right click and select **Copy** in the context menu.

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	A	B	C	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z		
1		Required																	
2		Validated Field																	
3		Not Required																	
4																			
5																			
6		Resource Rate Register					Resource Cost Details Register												
7		User Defined 1	Resource Code	Description	*Scale Factor 2	*Scale Factor 3	Total 1	Labor Base	Travel	Premium	Holiday	Savings	Pension	Vacation	Subsistence	Health & Welfare	Apprenticeship	Undefined Fringe 1	Undefined Fringe 2
8		10000	LC2	Carpenter Journeyman	1.50	2.00	\$28.92	22.10	0.00	0.00	0.22	0.00	0.66	0.44	0.00	0.66	0.00	0.00	0.00
9		10001	LSUPF	Foreman Pipe	1.50	2.00	\$29.92	23.10	0.00	0.00	0.22	0.00	0.66	0.44	0.00	0.66	0.00	0.00	0.00
10		10002	LSUIW	Foreman Iron	1.50	2.00	\$30.92	24.10	0.00	0.00	0.22	0.00	0.66	0.44	0.00	0.66	0.00	0.00	0.00
11		10003	LSUC	Foreman Civil	1.50	2.00	\$31.92	25.10	0.00	0.00	0.22	0.00	0.66	0.44	0.00	0.66	0.00	0.00	0.00
12		10004	LSUBM	Foreman Boilermaker	1.50	2.00	\$32.92	26.10	0.00	0.00	0.22	0.00	0.66	0.44	0.00	0.66	0.00	0.00	0.00
13		10005	LPF1	Lead Pipe Fabricator	1.50	2.00	\$33.92	27.10	0.00	0.00	0.22	0.00	0.66	0.44	0.00	0.66	0.00	0.00	0.00
14		10006	LPF2	Journeyman Pipefitter	1.50	2.00	\$34.92	28.10	0.00	0.00	0.22	0.00	0.66	0.44	0.00	0.66	0.00	0.00	0.00
15		10007	LPF3	Pipefitter A	1.50	2.00	\$35.92	29.10	0.00	0.00	0.22	0.00	0.66	0.44	0.00	0.66	0.00	0.00	0.00
16		10008	LPF4	Pipefitter B	1.50	2.00	\$36.92	30.10	0.00	0.00	0.22	0.00	0.66	0.44	0.00	0.66	0.00	0.00	0.00
17		10009	LBM1	Lead Boilermaker	1.50	2.00	\$37.92	31.10	0.00	0.00	0.22	0.00	0.66	0.44	0.00	0.66	0.00	0.00	0.00
18		10010	LBM2	Journeyman Boilermaker	1.50	2.00	\$38.92	32.10	0.00	0.00	0.22	0.00	0.66	0.44	0.00	0.66	0.00	0.00	0.00
19																			

- Go to Estimate. Right click and select **Paste** from the context menu.

Cost Breakdown Structure (CBS) Register

Resource Rate Register

Resource Cost Details Register

Labor Rate Record

Drag columns here to group

User Defined 1

Resource Code

Description

Resource File Description

Organizational Category

Geographic Area

Wage Zone

Scale

Total

Labor Base

Travel

Premium

Holiday

Find: [Search For...]

→

10000

LC2

Carpenter Journeyman

Standard Labor Rate File

Carpenter

Southwest

Wage Zone A

2

\$33.15

\$33.15

\$0.00

\$0.00

\$0.00

10001

LSUPF

Foreman Pipe

Standard Labor Rate File

Carpenter

Southwest

Wage Zone A

2

\$34.65

\$0.00

10002

LSUIW

Foreman Iron

Standard Labor Rate File

Carpenter

Southwest

Wage Zone A

2

\$36.15

\$0.00

10003

LSUC

Foreman Civil

Standard Labor Rate File

Carpenter

Southwest

Wage Zone A

2

\$37.65

\$0.00

10004

LSUBM

Foreman Boilermaker

Standard Labor Rate File

Carpenter

Southwest

Wage Zone A

2

\$39.15

\$0.00

10005

LPF1

Lead Pipe Fabricator

Standard Labor Rate File

Carpenter

Southwest

Wage Zone A

2

\$40.65

\$0.00

10006

LPF2

Journeyman Pipefitter

Standard Labor Rate File

Carpenter

Southwest

Wage Zone A

2

\$42.15

\$0.00

10007

LPF3

Pipefitter A

Standard Labor Rate File

Carpenter

Southwest

Wage Zone A

2

\$43.65

\$0.00

10008

LPF4

Pipefitter B

Standard Labor Rate File

Carpenter

Southwest

Wage Zone A

2

\$45.15

\$0.00

10009

LBM1

Lead Boilermaker

Standard Labor Rate File

Carpenter

Southwest

Wage Zone A

2

\$46.65

\$46.65

\$0.00

\$0.00

\$0.00

10010

LBM2

Journeyman Boilermaker

Standard Labor Rate File

Carpenter

Southwest

Wage Zone A

2

\$48.15

\$48.15

\$0.00

\$0.00

\$0.00

New

Delete

Cut

Copy

Paste

Fill Down

Link this field to Excel

Unlink from Excel

- You will be prompted with a **Are you sure you want to insert these values?** message as before. Select **Yes** to continue.
- Follow the same procedure for scale 3.

3.8.4.6 NON LABOR RESOURCE SETUP

The same principles can be applied for the other resource types within InEight Estimate. This procedure covers installed material, but can also be used for the other six resource types.

3.8.5 CREATING A MATERIALS SAVED VIEW - RESOURCE RATE REGISTER

Create a view to mirror both the register and excel sheets to easily bring information back and forth from the two applications.

Example of columns

- User Defined 1
- Resource Code
- Description
- Resource File Description - Validated Tag field
- Geographic Area - Validated Tag field
- Wage Zone - Validated Tag field
- Organizational Category - Validated Tag field
- Tag 1 - Validated Tag field
- Tag 2 - Validated Tag field
- Currency - Validated Tag field
- Apply Standard Tax - Validated Tag field
- Unique Sales Tax
- Unit of Measure - Validated Tag field

3.8.6 CREATING A MATERIAL RESOURCE

Follow the step by step once you have information filled out in excel.

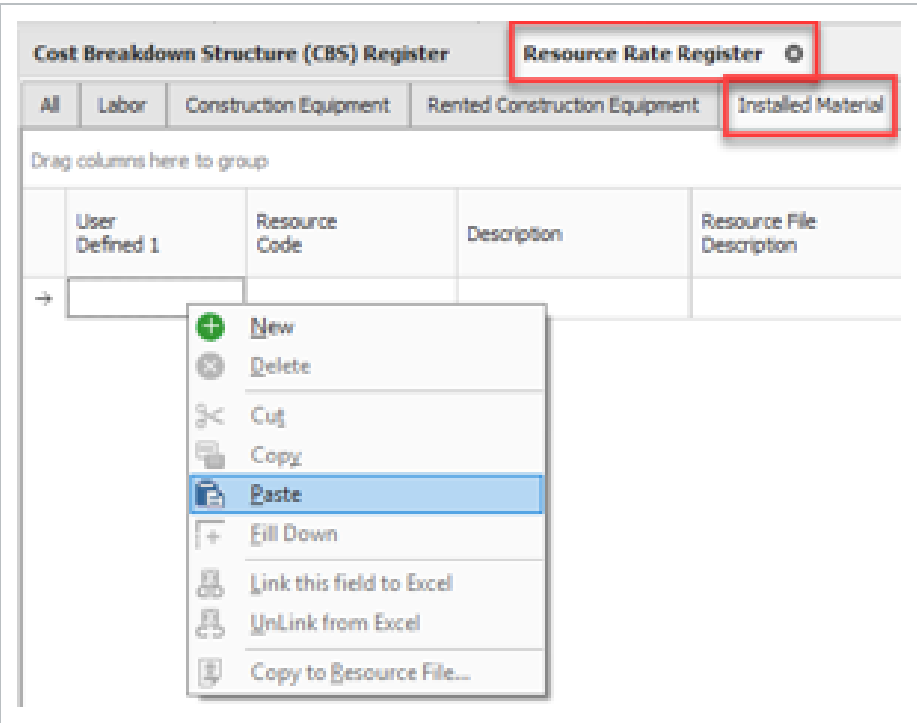
STEP BY STEP – CREATING THE RESOURCE

1. Open the excel file.
2. Sort the sheet by sequential number in the **Sort Code** field.
3. Highlight the cells you want to bring into the estimate.
4. Copy the cells using right click and selecting **Copy** from the context menu.

The screenshot shows the 'InEight Resource Rate Import Worksheet.xlsx' in Microsoft Excel. The 'Materials' tab is selected. The table contains the following data:

User Defined 1	Resource Code	Description	Resource File Description	Geographic Area	Wage Zone	Organizational Category	Tag 1	Tag 2	Currency	Apply Standard Tax	Unique Sale	Unit of Measure
10000	MAAM	Asphalt Mix (Finish)	Standard Material Rate File			Asphalt	Pave		U.S. Dollar	TRUE		5 Ton
10001	MAC	Asphalt Cement	Standard Material Rate File			Asphalt	Plant Asphalt		U.S. Dollar	TRUE		5 Ton
10002	MACA1-1/2	Coarse Aggregate 1-1/2 in	Standard Material Rate File			Asphalt	Plant Asphalt		U.S. Dollar	TRUE		5 Ton
10003	MAFA	Fine Aggregate	Standard Material Rate File			Asphalt	Plant Asphalt		U.S. Dollar	TRUE		5 Ton
10004	MAHAUL	Aggregate Haul Quarry to Plant	Standard Material Rate File			Asphalt	Plant Asphalt		U.S. Dollar	TRUE		5 Ton
10005	MAIA3/4	Intermediate Aggregate 3/4 in	Standard Material Rate File			Asphalt	Plant Asphalt		U.S. Dollar	TRUE		5 Ton
10006	MASAND	Sand	Standard Material Rate File			Asphalt	Plant Asphalt		U.S. Dollar	TRUE		5 Ton
10007	MATK	Tack	Standard Material Rate File			Asphalt	Pave		U.S. Dollar	TRUE		5 Gallon
10008	MBR	Aggregate Base Rock	Standard Material Rate File			Base Stone	Aggregate Base		U.S. Dollar	TRUE		5 Ton
10009	MC2000	Concrete 4000 PSI	Standard Material Rate File			Concrete	Concrete		U.S. Dollar	TRUE		5 Cubic Yard
10010	MC3500	Concrete 3500 PSI	Standard Material Rate File			Concrete	Concrete		U.S. Dollar	TRUE		5 Cubic Yard
10011	MDIRTA	Dirt Class A	Standard Material Rate File			Earthwork	Water/Sewer		U.S. Dollar	TRUE		5 Ton
10012	MDIRTB	Dirt Class B	Standard Material Rate File			Earthwork	Water/Sewer		U.S. Dollar	TRUE		5 Ton
10013	MMH	Manhole Precast 4 Ft	Standard Material Rate File			Manholes	Manhole		U.S. Dollar	TRUE		5 Each

- 5. Open Estimate to the **Resource Rate Register**.
- 6. Select the **User Defined 1** column in the Installed Material tab of the Resource Rate Register.



- 7. Right click the empty cell and select **Paste** from the context menu. A pop up will appear asking **Are you sure you want to insert the selected values?**

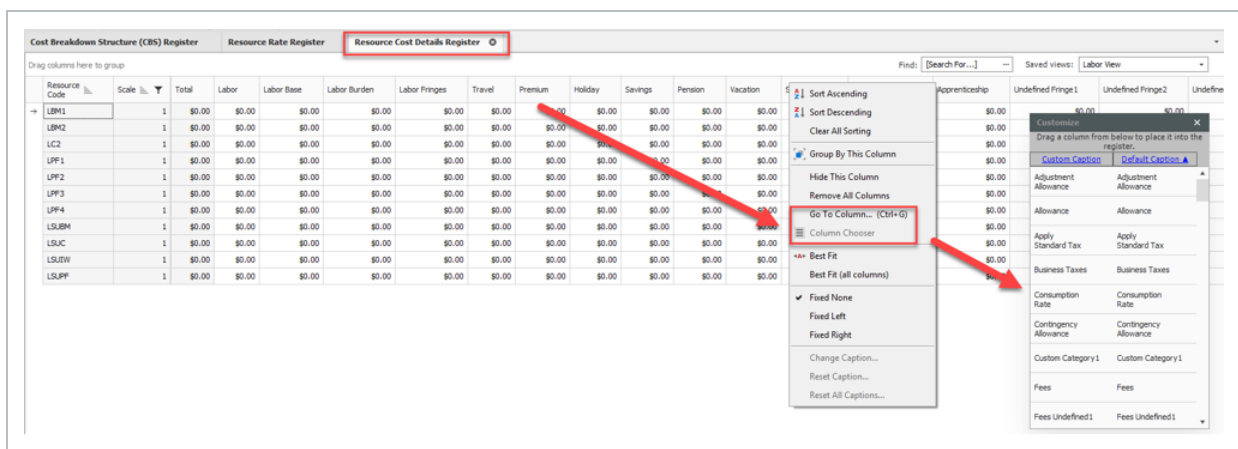
- You will be prompted with a **Are you sure you want to insert these values?** message. Click **Yes** to continue.

3.8.7 CREATE A MATERIAL SAVED VIEW - RESOURCE COST DETAILS REGISTER

Installed Material Resources are now in the system. You can apply rates to those resources. Create a view to mirror the accompanying excel sheet or create one to bring in the associated resource cost in the details register.

STEP BY STEP – MATERIAL SAVED VIEW

- From the Ribbon, select the **Actions** tab.
- Under the View section, select the Resource **Cost Details** option. The **Resource Cost Details Register** opens.
- NOTE** Create a view to mirror the accompanying excel sheet or create one to bring in the associated resource cost in the details register.
- From the Saved views drop down, select the **Installed material** view to filter down to only material resources.
- Right click a column header and select **Column Chooser**.
- Drag and drop the columns into the view identified below.



Example of columns – The level of detail and utilization of specific cost categories is a decision for each organization:

- User Defined 1 - Non editable fields from resource rates register
- Resource Code - Non editable fields from resource rates register
- Description - Non editable fields from resource rates register
- Resource File Description - Non editable fields from resource rates register
- Geographic Area - Non editable fields from resource rates register
- Wage Zone - Non editable fields from resource rates register
- Organizational Category - Non editable fields from resource rates register
- Unit of Measure - Non editable fields from resource rates register
- Currency - Non editable fields from resource rates register
- Total - Non editable fields from resource rates register
- Installed Materials
- Undefined Materials
- Sales Taxes
- Undefined Fees
- Undefined
- Billing Rate
- Billing Rate Markup
- Billing Rate Markup %

RELEVANT LINKS

Video - Import resource rates

3.9 QUANTITY CHECKING

The Quantity Checking feature allows you to compare the quantity of a superior cost item to the sum of its relevant subordinate cost item quantities. This setting enables the use of the **Quantity Check** and **Quantity Warning** columns in the Cost Breakdown Structure. The use of these columns can assist in confirming whether or not your quantities are correct.

NOTE

The subordinate cost item quantities need to have the same unit of measure as the superior cost item before you are able to choose the Quantity Check column.

In the example below, break a concrete pour cost item into four subordinate parts. The Forecast (T/O) Quantity of the superior item will be 156875.00 tons of concrete. Start by dividing each of the four parts into 35000.00 tons each. Once you have broken out this concrete pour, determine if you need a fifth pour or if you should distribute the remaining quantity to the four pours. The factors you keep in mind are the trips and time involved in the extra pour vs capacity of equipment.

STEP BY STEP – QUANTITY CHECKING

1. From the Ribbon, select the **Setup** tab.
2. Under the section Initialize, select **Job Properties**. Then select the **Cost Basis** tab.

NOTE

Quantity checking starts by turning the feature on in the Job Properties. If you want to have quantity checking turned on for all jobs in Estimate, then this setting needs to be turned on in the **Master Job Properties**. The Master Job Properties is located in the **Library**.

3. From the Rules data box, select the **Activate Quantity Checking** check box.

The screenshot displays the Estimate Essentials software interface. The top ribbon is set to 'Setup'. Under the 'Initialize' section, 'Job Properties' is selected and highlighted with a red box. The 'Job Properties' dialog box is open, and the 'Cost Basis' tab is selected, also highlighted with a red box. The 'Standard Shift Arrangements' section shows: Work Hours per Shift: 8.00, Pay Hours per Shift: 8.00, Shifts per Day: 1.00, Days per Week: 5.00. The 'Standard Wage Rate Composite' section shows: Scale 1: 100.00 %, Scale 2: 0.00 %, Scale 3: 0.00 %, and a 'Shift / Rate Calculator' button. The 'Rules' section on the right has the following settings: 'Lock Cost Items to Pay Items' is checked; 'Pay Item Unit Price Precision' is set to 2; 'Activate PBS Changes Log' is unchecked; 'Activate Quantity Checking' is checked and highlighted with a red box; 'Maintain CBS Structure at Level:' is set to 0. At the bottom, 'When man-count changes:' has 'Change UM / Man-Hour' selected.

4. Next bring a couple of columns into your view on the Cost Breakdown Structure (CBS) Register. Right click on the column header and choose **Go To Column**.

5. The Go To Column dialog box appears. Have the **Include columns that are not currently in the view** check box selected.

CBS Position Code	Description	Unit of Measure	Quantity Driver	Cost Source	Cost Segment	Unit Cost	Total Cost (Forecast)	Hours (Duration driven)	Days (Duration driven)	Labor Total Cost
4.2	Finegrade Subgrade	Square Yard	Superior CI	Detail	Direct Cost	\$0.19	\$75,848.36	320.00	40.00	\$39,464.36
4.3	Install Aggregate Base	Ton	Superior CI	Detail	Direct Cost	\$2.17	\$97,567.33	560.00	70.00	\$50,759.33
4.3.1	Place Aggregate Base	Ton	Superior CI	Detail	Direct Cost	\$1.63	\$73,460.92	240.00	30.00	\$33,884.92
4.3.2	Blue Top Aggregate Base	Square Yard	Superior CI	Detail	Direct Cost	\$0.06	\$24,106.42	320.00	40.00	\$16,874.42
5	Asphalt Concrete Hot Mix Type A	Ton	Pay Item	Detail	Direct Cost	\$42.62	\$1,491,580.59	466.67	52.50	\$108,952.25
5.1	Furnish & Haul Hot Mix	Ton	Superior CI	Detail	Direct Cost	\$39.27	\$1,374,562.54	233.33	29.17	\$50,010.87
5.2	Install Hot Mix Type A	Ton	Superior CI	Detail	Direct Cost	\$3.34	\$117,018.05	233.33	23.33	\$58,941.38
6	36 Inch RCP Culvert Class III	Linear Feet	Pay Item	Detail	Direct Cost	\$67.54	\$69,159.49	149.30	18.66	\$20,073.46
6.1	Furnish RCP Materials	Linear Feet	Superior CI	Detail	Direct Cost			0.00	0.00	\$0.00
6.2	Excavate RCP Trench	Cubic Yard	Superior CI	Detail	Direct Cost			37.17	4.65	\$4,963.56
6.3	Install RCP Pipe	Linear Feet	Superior CI	Detail	Direct Cost					
6.4	Backfill RCP Pipe	Cubic Yard	Superior CI	Detail	Direct Cost					
7	Concrete Pour	Ton	Superior CI	Detail	Direct Cost					
7.1	Concrete Batch One	Ton	Fixed	Detail	Direct Cost					
7.2	Concrete Batch Two	Ton	Fixed	Detail	Direct Cost					
7.3	Concrete Batch Three	Ton	Fixed	Detail	Direct Cost					
7.4	Concrete Batch Four	Ton	Fixed	Detail	Direct Cost					
8	10 Inch PVC Force Main (SDR21)	Linear Feet	Pay Item	Detail	Direct Cost					

6. Click **OK** when you have selected your preferred columns.
Next, toggle the check box for the **Quantity Check** column.

Item	Description	Quantity	Unit	Quantity Check	Quantity Driver	Quantity Warning	Cost Source
7	Concrete Pour	156,875.00	Ton	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Superior CI
7.1	Concrete Batch One	35,000.00	Ton	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fixed
7.2	Concrete Batch Two	35,000.00	Ton	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fixed
7.3	Concrete Batch Three	35,000.00	Ton	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Fixed
7.4	Concrete Batch Four	35,000.00	Ton	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Fixed

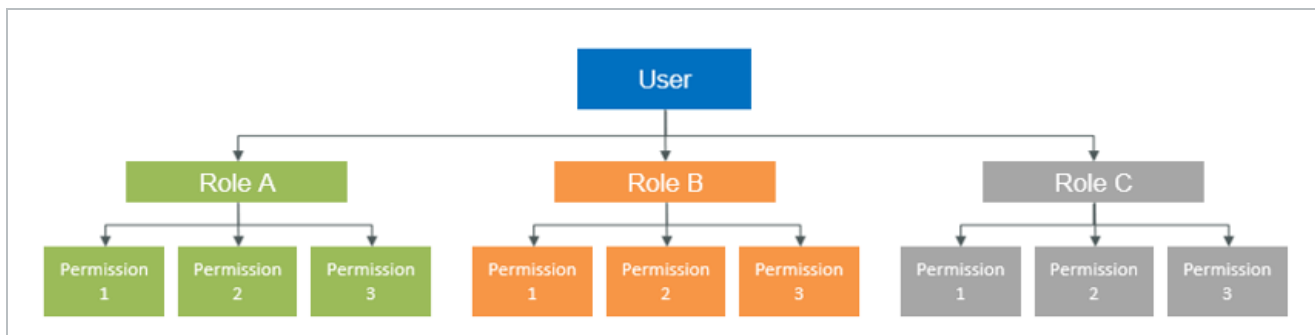
7. **NOTE** As you check Quantity Check for the four batches of Concrete, the superior cost item Quantity Warning turns yellow. This is indicating a quantity warning. Hover your mouse over the superior cost item Quantity Warning column. Then, an overlay message appears showing the quantity discrepancy. Apply this discrepancy to the Subordinate cost items. That way, the superior cost item will be the sum of the parts.
8. The remaining quantity is 16875.00 tons which does not warrant a fifth pour.

3.10 SECURITY IN ESTIMATE

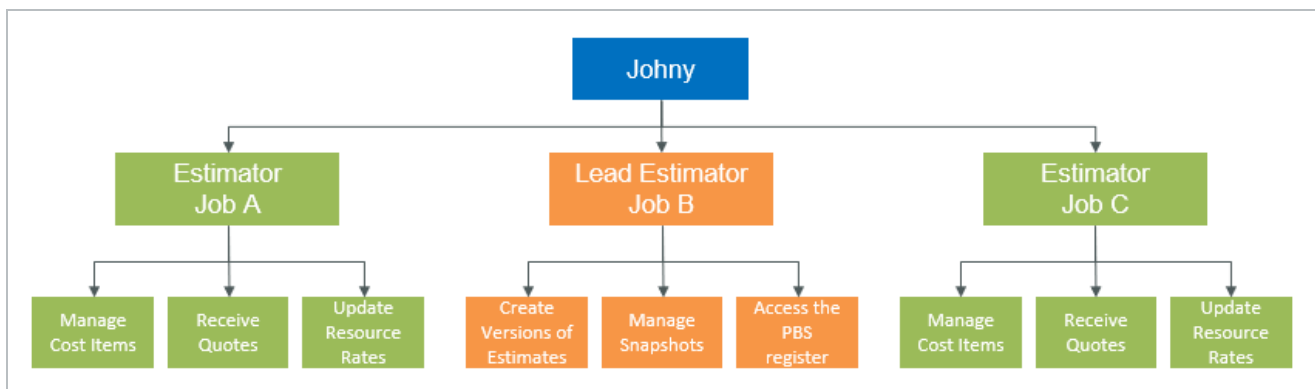
3.10.1 ROLE BASED PERMISSIONS

Estimate uses a role-based security model, where users can be assigned to a role on a project. A role identifies if a user has been granted access for various permissions to perform defined functions in Estimate.

A role is a collection of permissions that defines a user's responsibilities on a project or in an organization.



For example, Johny can be an Estimator on Job A and a Lead Estimator on Job B, giving him elevated permissions to perform actions that a less responsible estimator may not be permitted to perform.



Roles are created and managed in the Roles and Permissions page in the Suite Administration section of InEight Platform (Suite Administration > **Roles and permissions**).

Suite administration / Roles and permissions			OneDrive-QA-23.2
Name	Description	Administrator level	
<input type="checkbox"/> Account Administrator	Account Administrator	Level 3 - Account Admin	
<input type="checkbox"/> Account Administrator- All Roles	Account Administrator	Level 3 - Account Admin	
<input type="checkbox"/> Account Administrator- Copy	Account Administrator	Level 3 - Account Admin	
<input type="checkbox"/> AJL New Role LIV	testing synch of roles to estimate	Level 3 - Account Admin	
<input type="checkbox"/> AJL Role Z	test role to do something somewhere	Level 1 - Project Admin	
<input type="checkbox"/> AJL Role ZZ	maybe this is the last roled	Level 2 - Organization Admin	
<input type="checkbox"/> AL - NoEditRole	Role cannot edit library	Level 3 - Account Admin	
<input type="checkbox"/> AL - YesEditRole	Role can edit library	Level 3 - Account Admin	
<input type="checkbox"/> AL Role A	Role A for use in test cases	Level 3 - Account Admin	
<input type="checkbox"/> AL Role B	can delete snapshots	Level 3 - Account Admin	
<input type="checkbox"/> AL Role C	Role to test more stuff	Level 3 - Account Admin	
<input type="checkbox"/> AL-no Templates, No Library	user cannot access Library or Templates	Level 3 - Account Admin	
<input type="checkbox"/> Default Role	Default Role	Level 0 - Base	
<input type="checkbox"/> Dev/Ops Administrator	Dev/Ops Administrator	Level 3 - Account Admin	
<input type="checkbox"/> Estimate-AddJob-noViewSnapshot	Testing Estimate permissions scenario	Level 3 - Account Admin	
<input type="checkbox"/> Estimate-AddJob-ViewSnapshot	Testing Estimate permissions scenario	Level 3 - Account Admin	
<input type="checkbox"/> Estimate-AddSnapshot	Testing Estimate permissions scenario	Level 3 - Account Admin	
<input type="checkbox"/> Estimate-noAddJob-ViewSnapshot	Testing Estimate permissions scenario	Level 3 - Account Admin	
<input type="checkbox"/> Estimate-ViewSnapshot	Testing Estimate permissions scenario	Level 3 - Account Admin	
<input type="checkbox"/> Estimator	Estimator	Level 1 - Project Admin	
<input type="checkbox"/> Foreman	Foreman	Level 1 - Project Admin	
<input type="checkbox"/> Integration Settings	Integration Settings	Level 3 - Account Admin	

The following image shows how the Estimator role has been defined with permissions to launch Estimate, add and edit jobs, and view snapshots, but it does not have permissions to delete jobs or add and edit snapshots.

The screenshot shows the 'Roles and permissions' page in the InEight Suite administration interface. The breadcrumb trail is 'Suite administration / Roles and permissions'. The page title is 'Roles and permissions' with a sub-tab 'Edit role'. There are 'Cancel' and 'Save' buttons at the top right. The 'Role details' section shows the role name 'Estimator', description 'Estimator', and administrator level 'Level 1 - Project Admin'. The 'Permissions' section lists various categories: Suite administration, Organization and project, Master data libraries, Model, Document, and Estimate. The 'Estimate' category is expanded, showing a search bar and two sub-sections: 'Jobs' and 'Snapshots'. Under 'Jobs', 'Launch Estimate' is checked, and 'Add jobs', 'Edit jobs', and 'Delete jobs' are unchecked. Under 'Snapshots', 'View snapshots' is checked, and 'Add snapshots', 'Edit snapshots', and 'Delete snapshots' are unchecked. The footer includes copyright information for InEight Inc. and version 23.2.

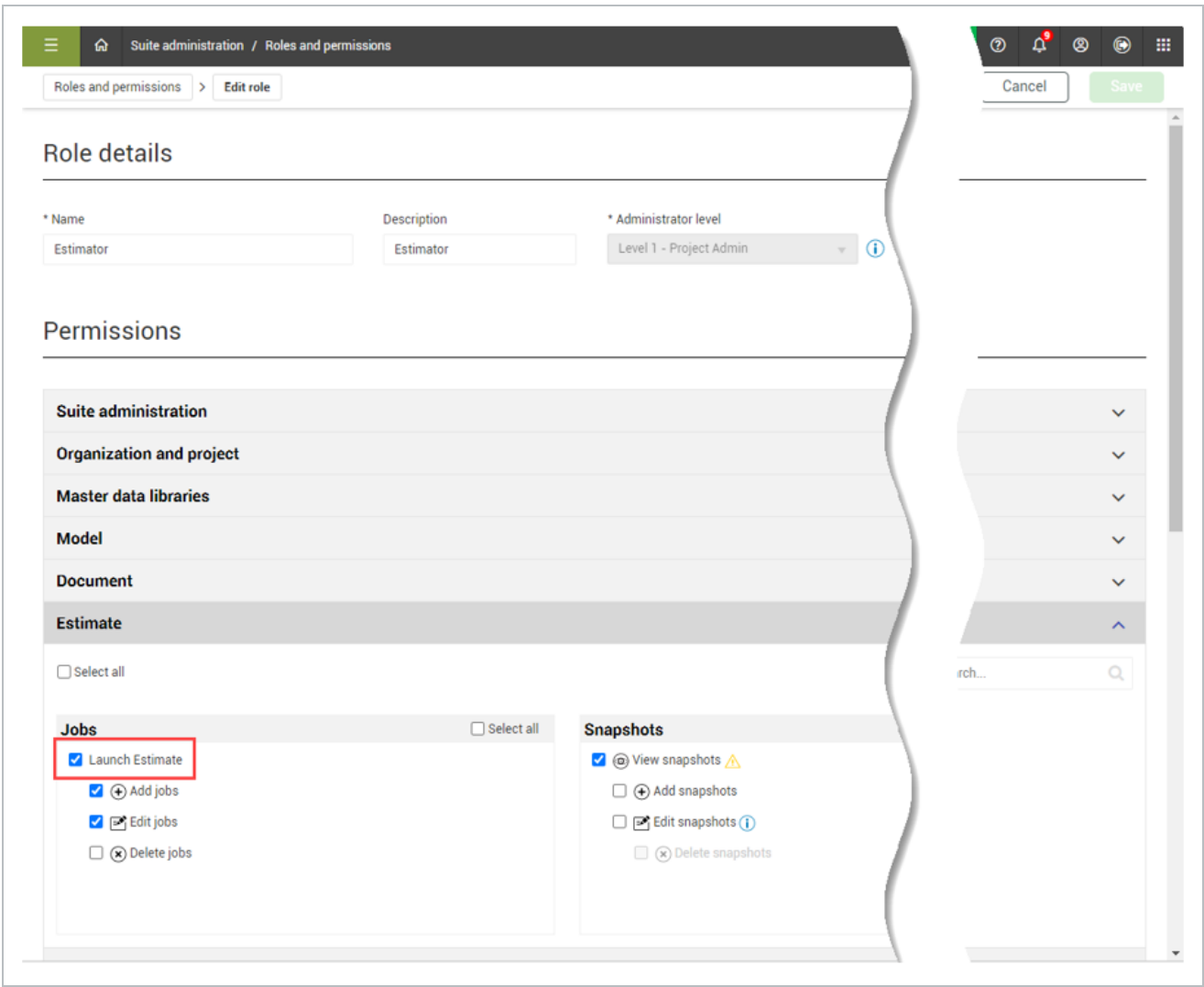
For more information on setting up roles in InEight Platform, see [Roles & Permissions](#) in the Knowledge Library.

3.10.2 SECURITY IN ESTIMATE

The capacity to grant permissions in a job and what can be performed is accomplished with a combination of permissions that exist in both Platform and Estimate.

Generally, permissions managed in Platform determine which users can launch Estimate and who can manage jobs, snapshots, templates and access the Estimate library. Permissions managed in the Estimate determine which users are granted permissions to specific commands and destinations solely in Estimate.

For any user to use Estimate, they need to have a role that has been granted the Launch Estimate permission, which is found in the Estimate blade of the Roles and permissions page when editing the details of a role.

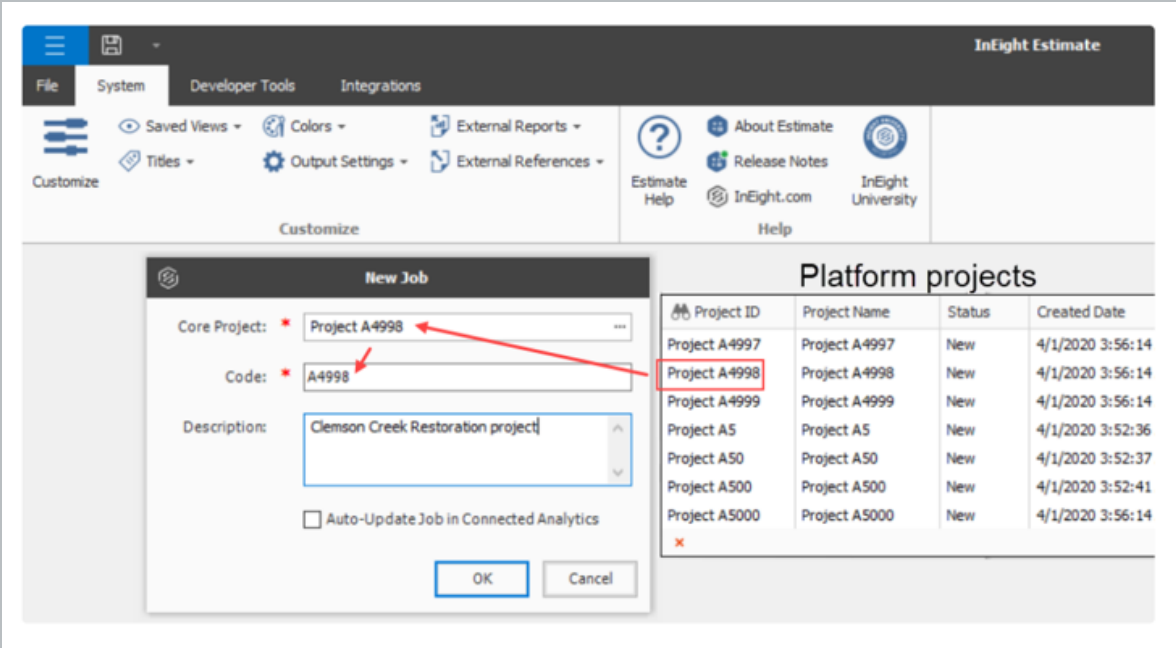


3.10.3 GRANTING PERMISSIONS TO ACCESS JOBS AND SNAPSHOTS

When creating jobs in Estimate, it is required to associate new estimates with existing Platform projects and all the related OBS contents.

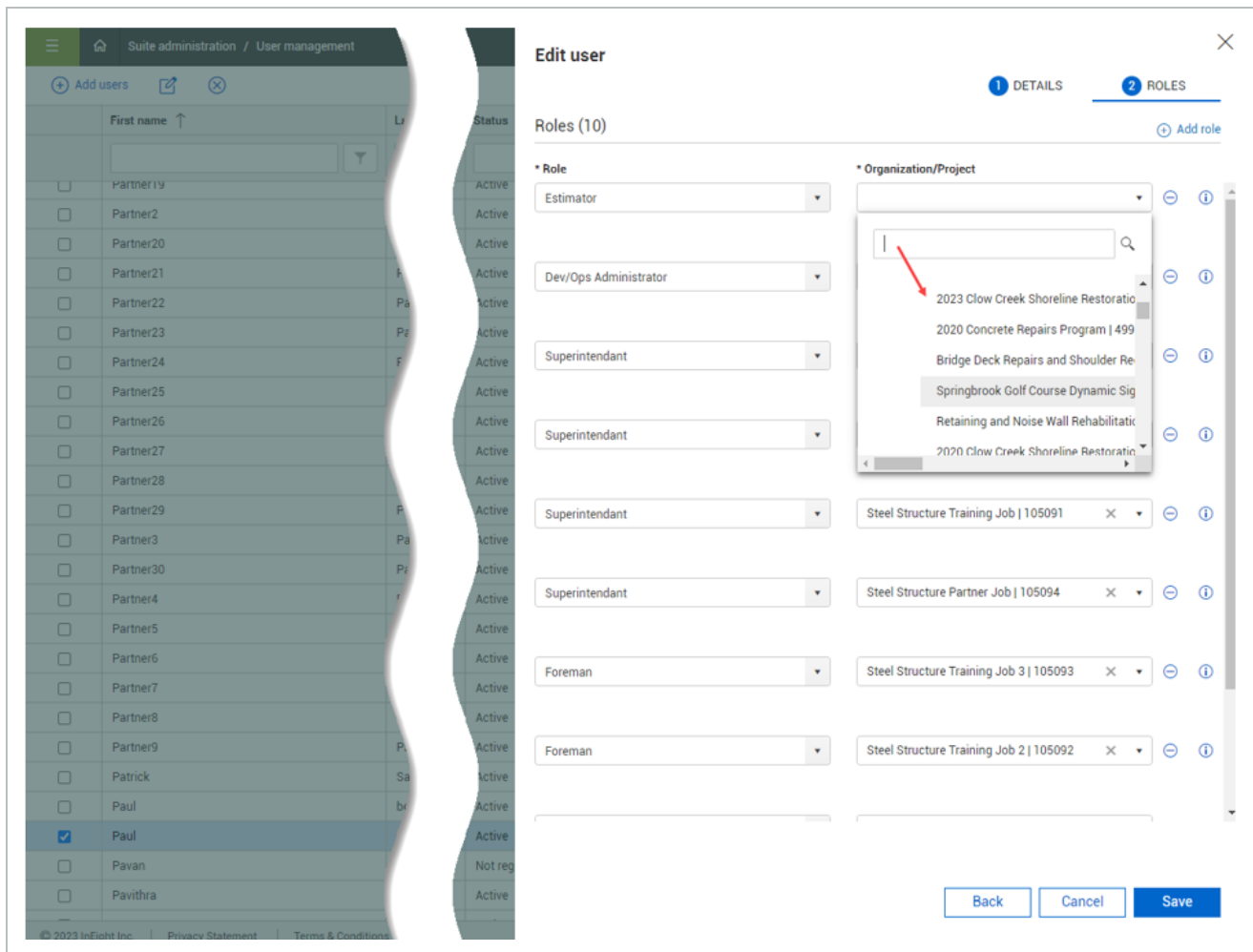
NOTE

Multiple estimates can be assigned to a single Platform project. In this case, permissions granted to users on a project will be the same permissions for all the estimates belonging to that project.



This Platform project is used to assign roles for the purposes of granting various permissions.

To grant permissions to a particular user on a Job, go to the User Management page in InEight Platform, edit the user, and then assign the user a role on a project on the Roles tab of the Add or Edit User slide-out panel.



For more information on managing users, see the User Management section in [Roles & Permissions](#) in the Knowledge Library.

NOTE

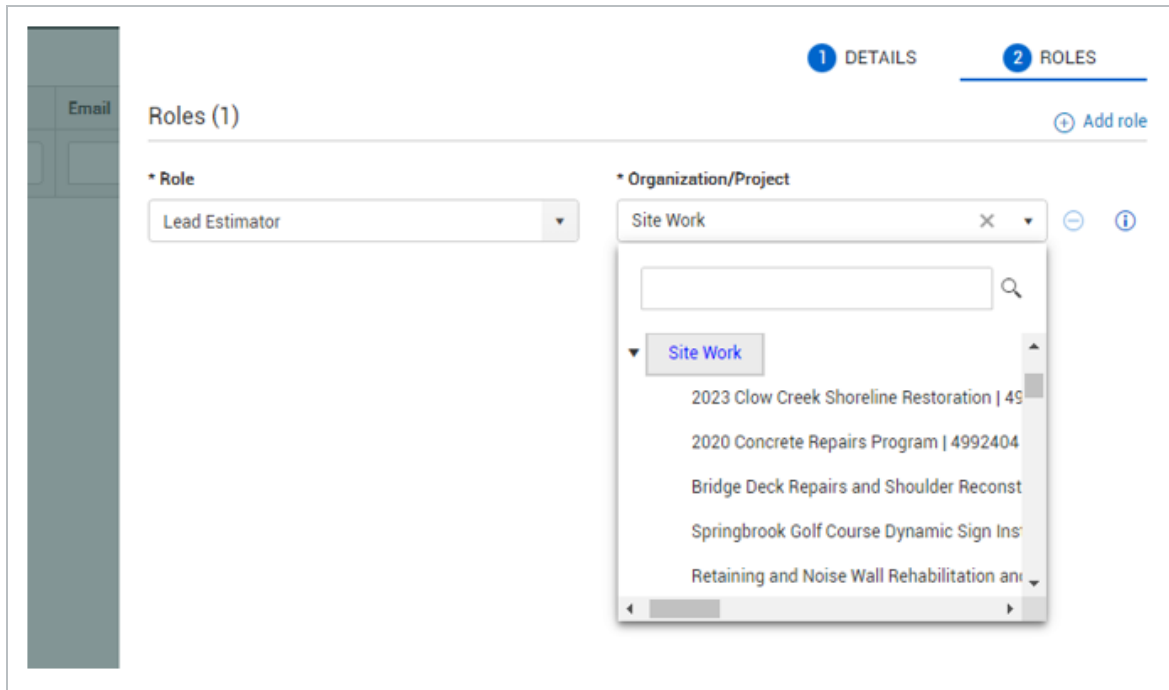
In Estimate on-premise, roles are created and managed in the User Roles register. After the role is created, users can be assigned to the role from the list in the Windows Active Directory Users and Groups in Estimate. The Users assigned role as determined by the currently logged in user is used to grant permissions at the application level. Because Estimate on-premise uses the computer's logged in user in determining the user's role, roles cannot be segregated by job. To enforce job-level security in Estimate on-premise, populate the list of users allowed in the job on the Security tab of the Job Properties form.

3.10.3.1 ORGANIZATIONAL BREAKDOWN STRUCTURE

Projects in Platform are required to have an Organizational Breakdown Structure (OBS) assignment. The OBS assignments can be utilized for assigning roles and granting permissions to all jobs belonging

to a node in the OBS.

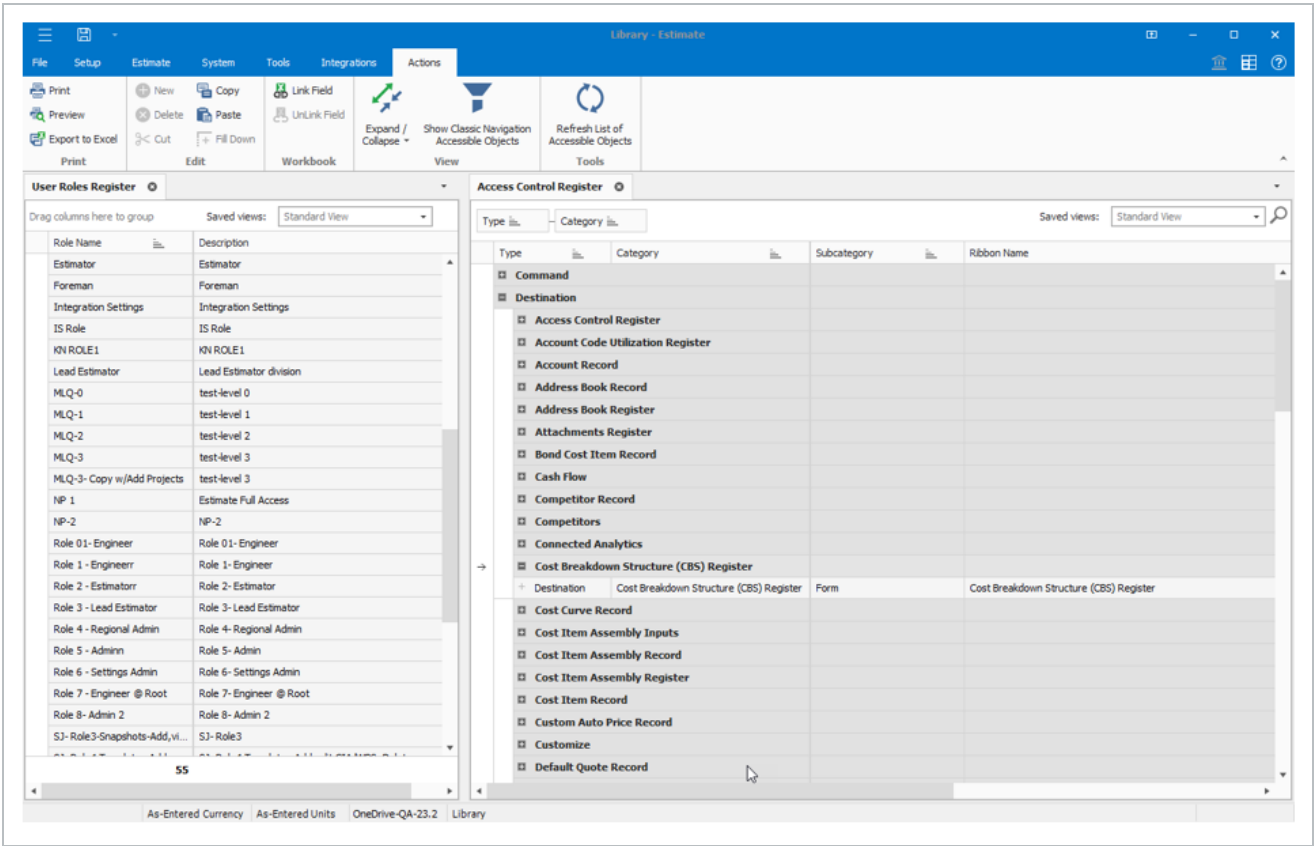
In the following example, Johnny has been assigned as the Lead Estimator for the Site Work node of the OBS, which grants him the permissions assigned to the Lead Estimator role for every estimate created that belongs to the Site Work node in the OBS.

**NOTE**

Permissions are cumulative, so if a user is assigned multiple roles on a single project, the role with the most permissions is applied when attempting to access various functions.

3.10.4 GRANTING PERMISSIONS TO DESTINATIONS AND COMMANDS

Estimate can grant permissions at a deep-rooted level by assigning which roles can access specific forms. You can also assign certain roles that can perform specific commands or actions that can be performed within those forms.



Permissions are managed in the Access Control Register in the Setup tab of the Library.

This register is a list of accessible objects, which can be used to grant or restrict permissions to various roles. By default, the register is organized by type, then by category. Removing the grouping lets you search for key words using the search capabilities of the register.

Access Control Register		
Drag columns here to group		
Type	Category	Ribbon Name
+ Destination	Fuel Cost Record	Fuel Cost Record
+ Destination	Geographic Area Record	Geographic Area Record
+ Destination	Haul Calculator Record	Haul Calculator Record
+ Destination	Job Properties	Job Properties
+ Destination	Job Register	Job Register
+ Destination	Job Snapshots	Job Snapshots
+ Destination	Job Status Register	Job Status Register
+ Destination	Main Form	Main Form
+ Destination	Microsoft Excel	Microsoft Excel
+ Destination	Organizational Category Record	Organizational Category Record
+ Destination	Pay Item & Proposal Register	Pay Item & Proposal Register
+ Destination	Pay Item Record	Pay Item Record
+ Destination	PBS Change Record	PBS Change Record
+ Destination	PBS Changes Register	PBS Changes Register
+ Destination	Period Resource Quantities	Period Resource Quantities
+ Destination	Price % Add-On Record	Price % Add-On Record
+ Destination	Price Breakdown Structure	Price Breakdown Structure
+ Destination	Price Category Record	Price Category Record
+ Destination	Quantity Roll-Up Record	Quantity Roll-Up Record
+ Destination	Quote Comparison & Award - Cost items	Quote Comparison & Award - Cost items
+ Destination	Quote Comparison & Award - Resources	Quote Comparison & Award - Resources

The Type of the accessible object is one of the following:

- **Command:** Actions that are in the main ribbon navigation.
- **Destination:** A form or location within the application. Restricting this type of permission means that all the actions that are available in the form are unavailable.
- **Register Command:** These are the commands that appear for the specified register and are commonly accessed either by using the actions menu in the navigation ribbon when the register is active or using the right-click context menu commands on the records in a register.

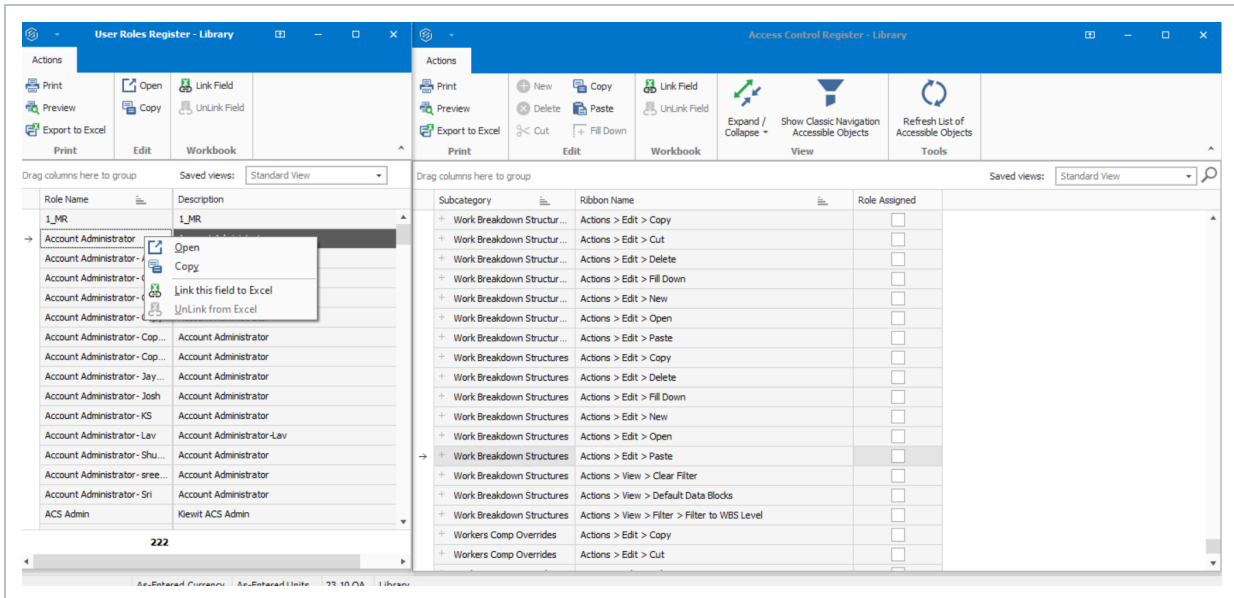
Categories and subcategories can be used to further group and identify various accessible objects.

The Ribbon Name column provides the navigation path and name of the object as it appears in the ribbon navigation. The Show Classic Navigation Accessible Objects button on the Actions tab of the Access Control register can be used to identify accessible objects as they might have existed in the legacy version of Estimate, and are still available to assist users who may have set up Access Control prior to the newer ribbon navigation.

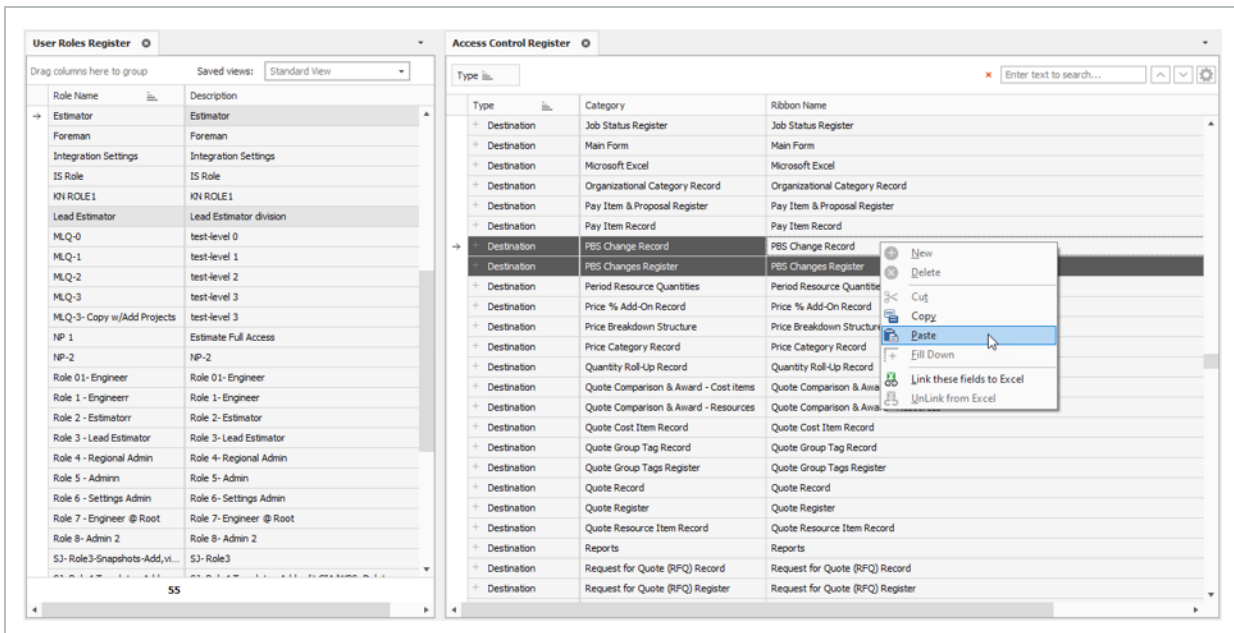
Follow these steps to set up Access Control on an Accessible object:

1. Identify the role or roles in the User Roles register, then right-click to copy.

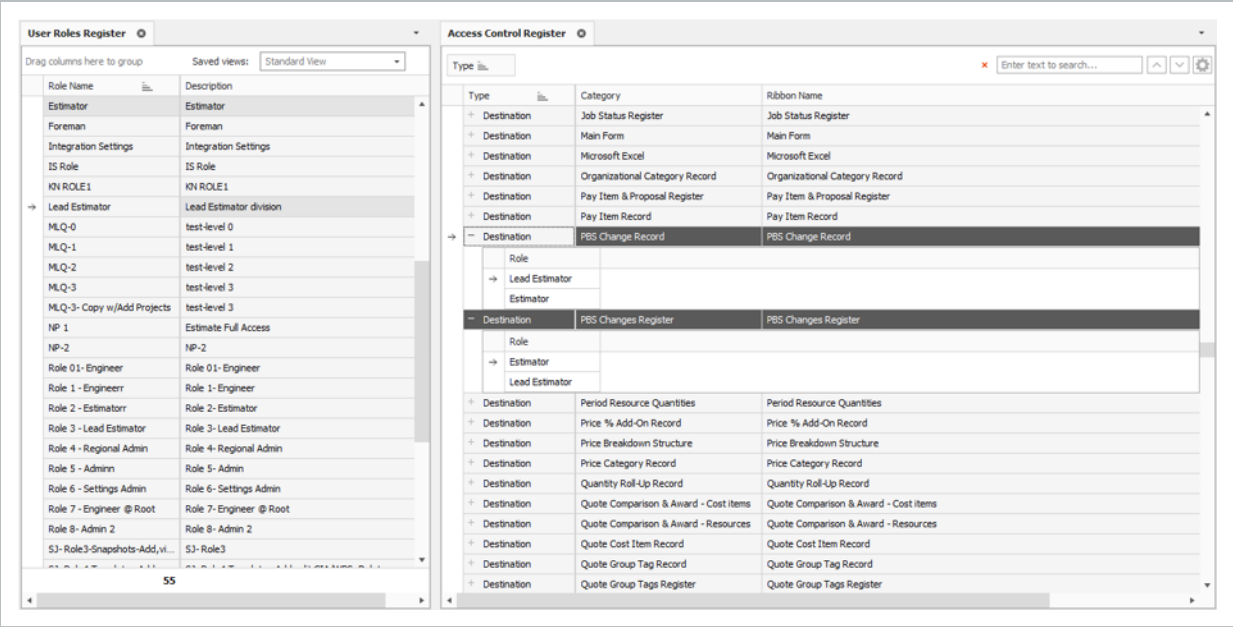
- In the Access Control register, you can filter on the Role Assigned field to help you see the associated roles with Access Controllable objects.



2. Select one or more accessible objects in the Access Control register and right-click to paste.



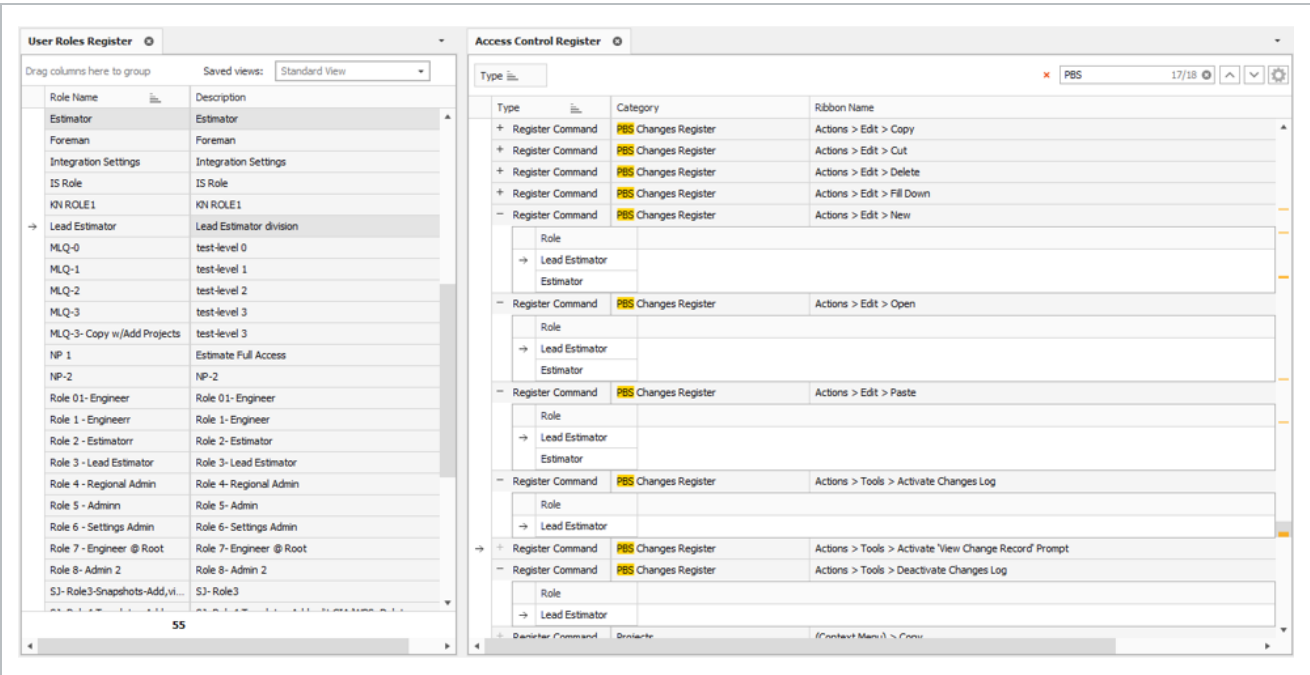
3. Expand the detail records of the accessible objects to verify the role assignments have been correctly made.



NOTE You can drag and drop the Roles onto the accessible objects in these two registers.

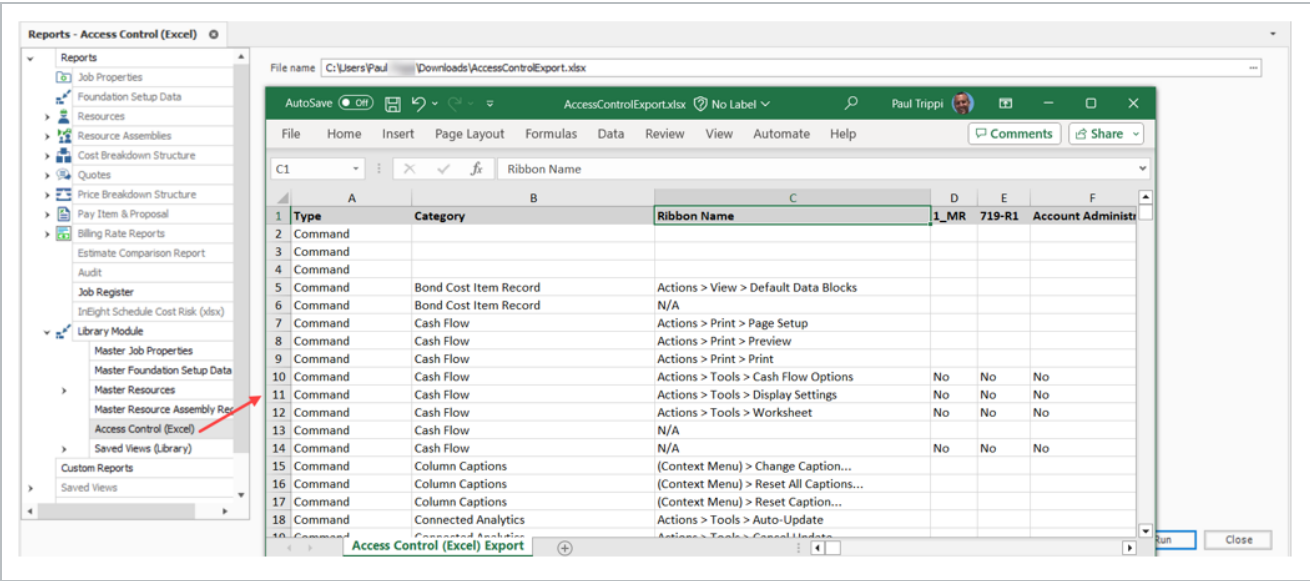
If no roles are assigned to an accessible object, no restrictions are applied to the accessible object, and anyone with access to the application will be able to access that destination or command. When setting up Access Control, be sure to identify the commands and destinations in Estimate that you want to restrict permissions to, and then assign the roles to explicitly grant permissions to those accessible objects.

In the following example, both Estimators and Lead Estimators are permitted to invoke any of the actions on the records in the PBS Changes Register, but only the Lead Estimator is permitted to activate or deactivate the PBS Changes Log. Because no roles have been assigned to the *Activate 'View Change Record'* prompt, anyone with access to the application will be able to perform that action.



3.10.4.2 ACCESS CONTROL REPORT

You can use the Access Control report to audit user permissions, command access, and various restrictions without having to search through the Access Control register for this information.



The report makes it easier to find the role names along with their associated Yes and No access permissions to each form in Estimate.

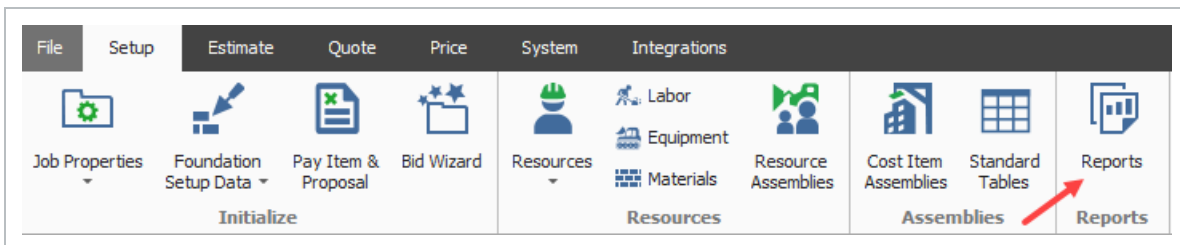
	A	B	C	D	E	F	G	H
1	Type	Category	Ribbon Name	Account Administrator	Account Administrator-All permission	Design - Eng - Admin	Design - Eng - Project Admin	Design - Eng - Project Team
2	Command							
3	Command							
4	Command							
5	Command	Bond Cost Item Record	Actions > View > Default Data Blocks					
6	Command	Bond Cost Item Record	N/A					
7	Command	Cash Flow	Actions > Print > Page Setup					
8	Command	Cash Flow	Actions > Print > Preview					
9	Command	Cash Flow	Actions > Print > Print					
10	Command	Cash Flow	Actions > Tools > Cash Flow Options	No	No	Yes	No	No
11	Command	Cash Flow	Actions > Tools > Display Settings	No	No	Yes	No	No
12	Command	Cash Flow	Actions > Tools > Worksheet	No	No	Yes	No	No
13	Command	Cash Flow	N/A					
14	Command	Cash Flow	N/A	No	No	No	No	No

STEP BY STEP – ACCESS CONTROL REPORT

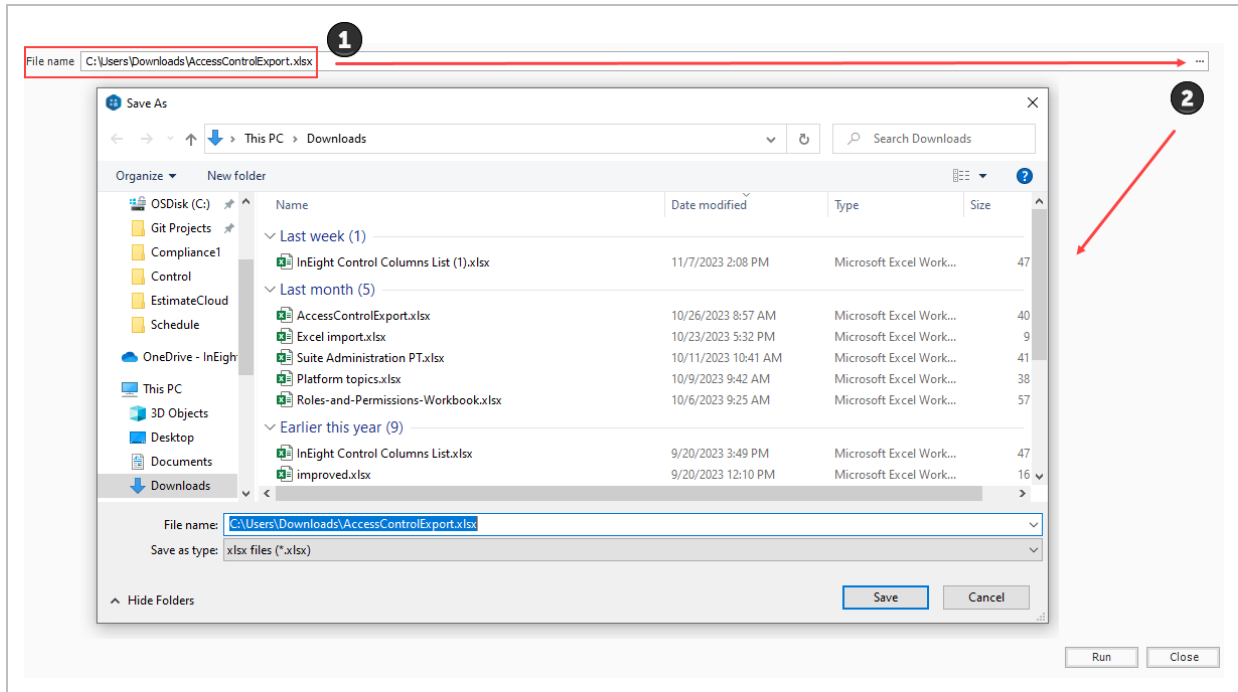
1. Open a job, and then select the **Setup** tab.
2. Click the **Reports** icon.

TIP

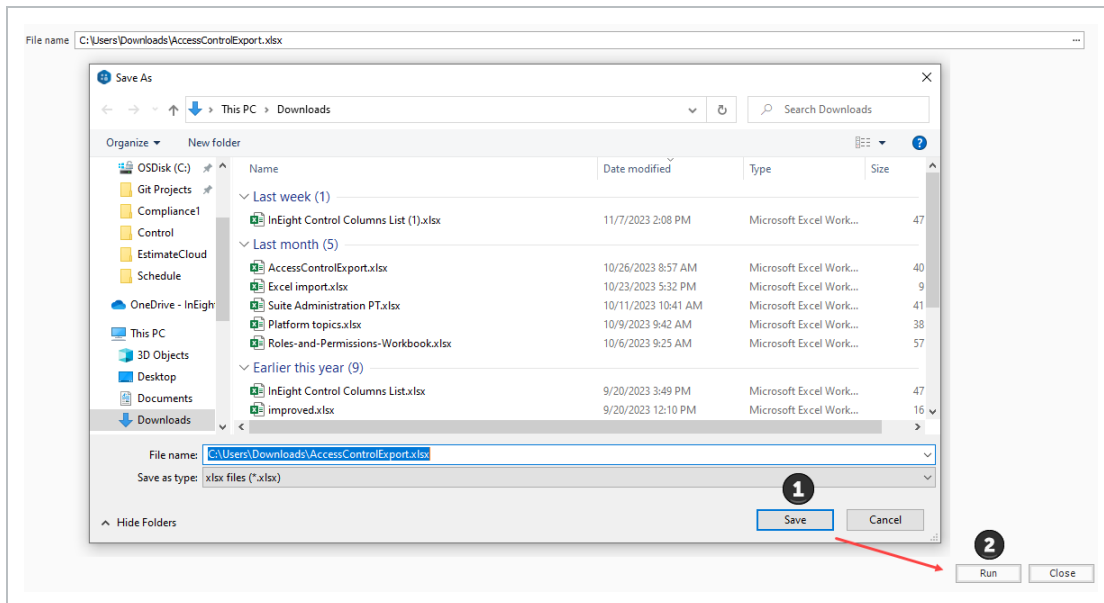
You can access the Reports menu from the Setup, Estimate, Quote, Price, and Execution tabs.



3. Expand Library Module, and then select **Access Control (Excel)**.
4. Select a **file name**, or choose another file name path.



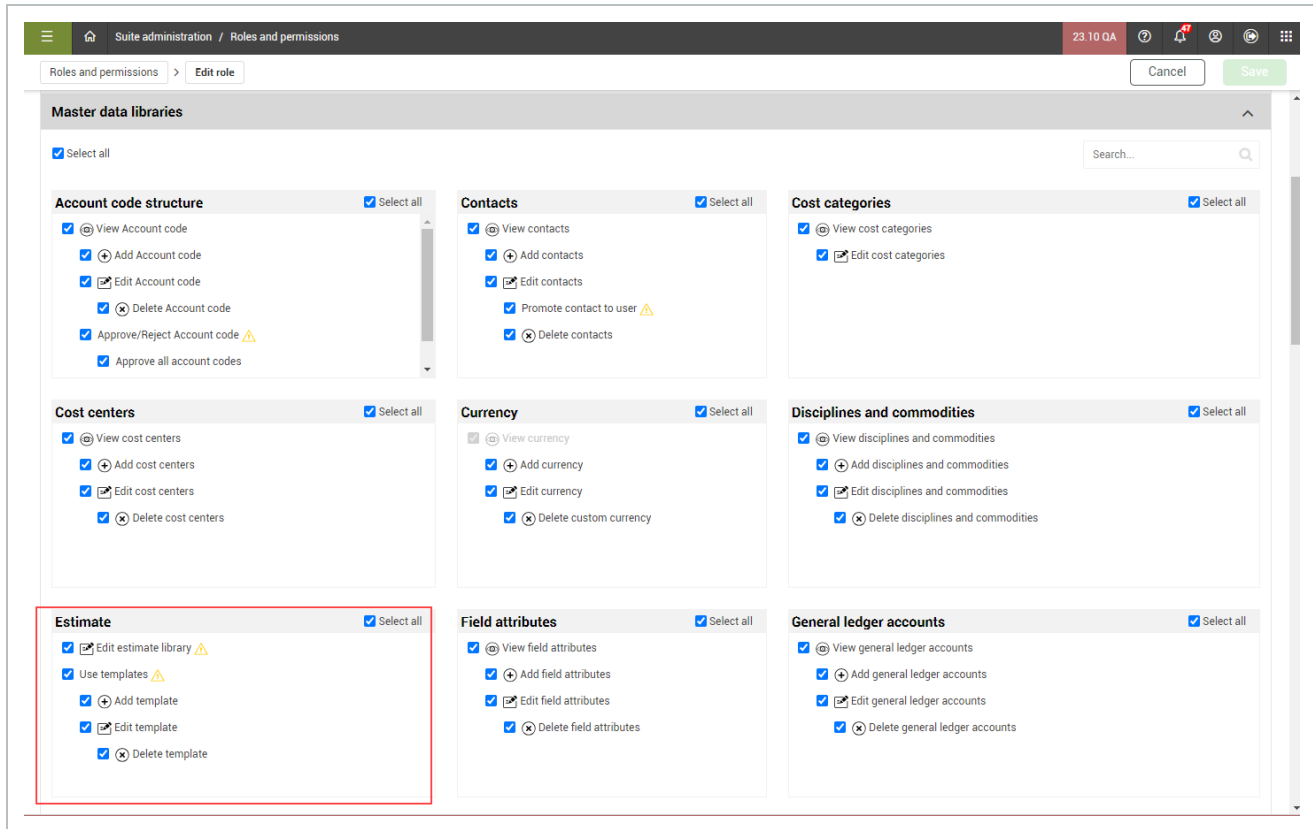
5. Click **Save**, and then click **Run**.



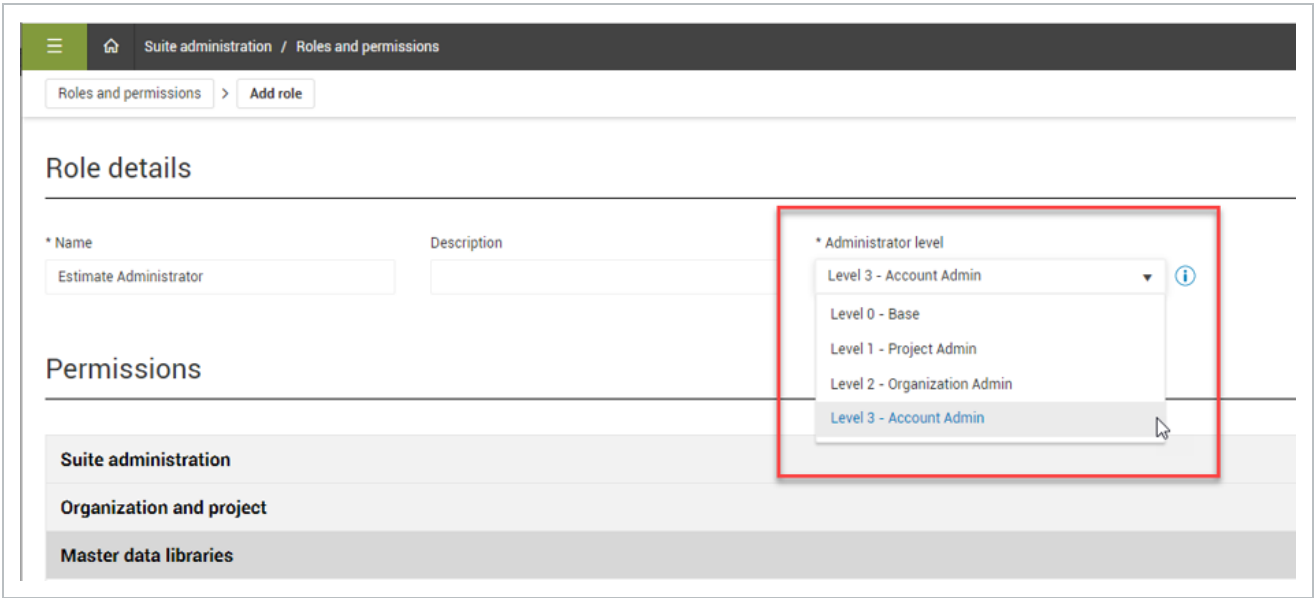
What's Next: Open the Access Control Excel file to filter, sort, or perform any type of audit to help you determine user or role access.

3.10.5 GRANTING PERMISSIONS TO THE ESTIMATE LIBRARY

In Platform, permissions relating to the Estimate library are found in the Master data libraries permission section.



To grant Estimate library permissions to a role, the role must be an Administrator Level 3 - Account Admin. If not, the permissions are not selectable on the Add/Edit Role setup page.



The Master data libraries permission section is also where the permissions controlling which roles can manage templates are found.

3.10.6 COMMON ROLES USED WHEN SECURING AN ESTIMATE

The process of creating an estimate for a bidding opportunity commonly requires unrestricted access to the capabilities of Estimate so that estimators can work efficiently. However, depending on the level of data governance within an organization, you might want to preclude certain users from accessing some of the more sensitive parts of Estimate. If changes were made, either accidentally or otherwise, it could impose detrimental impacts on the organization.

Estimate’s security model is very detailed and robust. When designing a security model that restricts certain features and functionality of Estimate, each company must weigh the benefit of the protection of such restrictions which could bring unwanted or uncontrolled changes and negatively impact the productivity of the estimating process. While it is possible to create a very detailed and robust security model with many different roles for individuals within an organization, it is not necessary to set up and maintain roles for all of Estimates accessible objects. It is likely a company can effectively secure their sensitive data with no more than a couple roles granting permissions to a few commands and destinations.

A common way to implement security on the Estimate application is to restrict access to certain system level settings, such as who can modify data in the library, or who can change any company specified custom column captions.

The following are some of the more common Roles a company may set up, describing the purpose of the role and typical permissions:

- **Lead Estimator:** Lead Estimators are commonly assigned to estimates based on their knowledge and experience. They may be precluded from creating or deleting estimates themselves or changing any system level settings, but commonly have full access to all the capabilities needed to create and maintain the estimates they are assigned to.
- **Estimate Manager:** Estimate Managers are commonly responsible for identifying bidding opportunities and determining which opportunities to pursue. Once it has been determined that the company will pursue an opportunity, the Estimate Manager creates the estimate and assign it to a Lead Estimator based on resource availability relative to all the bidding opportunities the company will be pursuing. These roles manage the creation of estimates and assist in ensuring all the necessary supporting data is available, such as assigning appropriate project attributes or including needed resource libraries.
- **Administrator:** Administrators ensure accessibility and availability of the solutions utilized by estimators. Typically, they control system level settings and activities that would affect company standards, such as changing column captions, ability to define corporate views, list of job statuses and ribbon settings. Other typical permissions restricted to only the Administrator level roles are the ability to access the User Roles register and the Access Control register.

LESSON 3 REVIEW

1. When you create a new job folder, all category labels defined in the Library Foundation Setup Data Register will be copied to the new job folder automatically.
 - a. True
 - b. False
2. This resource type is a catch-all and can be used for anything from dump fees and security to creating subcontractors as a resource.
 - a. Installed Materials
 - b. Unique
 - c. Labor
 - d. Construction Equipment
3. The Construction Equipment and Rented Construction Equipment Resource Rate Records include consumption rates that will factor with the fuel cost you define where?
 - a. Library Foundation Setup Data
 - b. Library Resource Rates
 - c. Job Properties
 - d. Cost Breakdown Structure

LESSON 3 SUMMARY

As a result of this lesson, you can define, adjust and explain:

- Library Job Properties
- Library Foundation Setup Data Register
- Library Resource Rate Register
- Library Assembly Register

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LESSON 4 – PROJECT SETUP

LESSON DURATION: 45 MINUTES

LESSON OBJECTIVES

After completing this lesson, you will be able to:

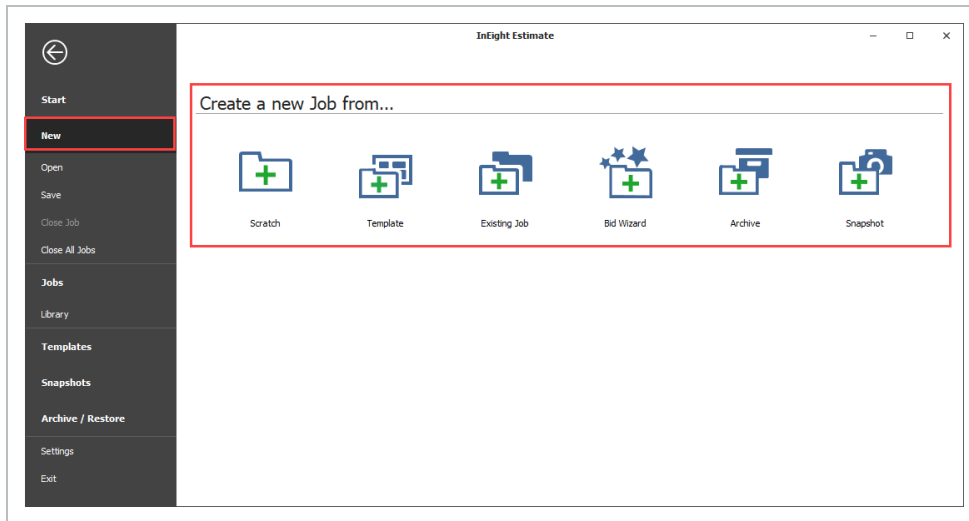
- Create a new project
- Enter Job Properties
- Create pay items in the Pay Item & Proposal Register

LESSON TOPICS

4.1 JOB CREATION

In InEight Estimate, a job represents the *folder* containing your estimate (or version of your estimate), including its related bid items, cost breakdown structure, resources, quotes, and change logs. All the jobs in your organization are stored in the [Job Register Overview](#).

To create a new job, you can choose from multiple options available when selecting **New** in the InEight Estimate Backstage view. The image and table below show the available options.



Option	Description
Scratch	Creates a new job folder from scratch that is empty, containing no existing data.
Template	Creates a job from an existing template, selected from the Template Register. For more information, see Templates .
Existing Job	Creates a job from an existing job, selected from the Job Register. For more information, see Copy an Existing Job .
Bid Wizard	Uses a wizard tool to create a new job by selecting pay items and/or cost items from an existing source job. For more information, see Bid Wizard .
Archive	Creates a new job from an Estimate Job Archive (.est) File. For more information on creating and using job archives, see Archive and Restore Jobs .
Snapshot	Creates a new job from a register containing snapshots for all jobs. You can filter the register of snapshots to find the snapshot you need. For more information, see Snapshots .

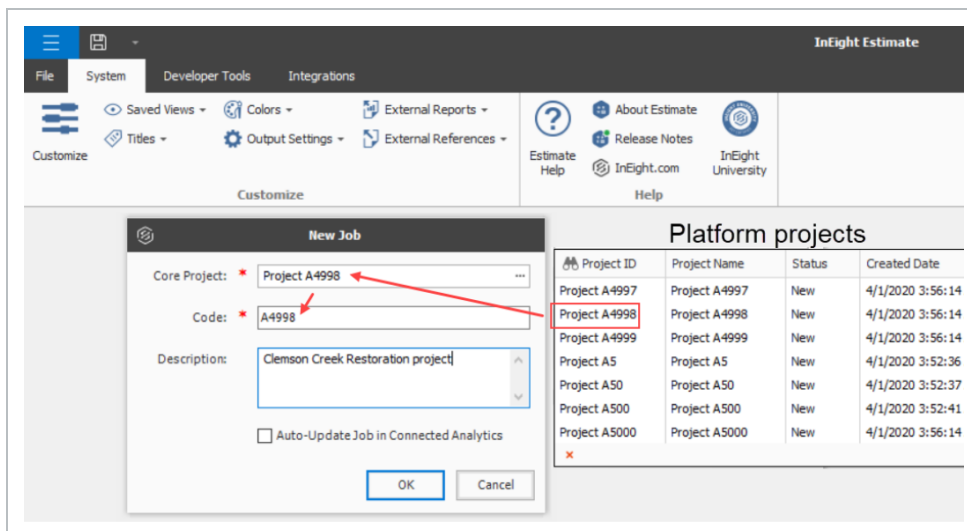
4.1.1 CREATE A JOB FROM SCRATCH

When you need a clean estimating environment that is not based on any past work, select the create a new job from **Scratch** option. Creating a job from scratch gives you complete flexibility and ensures no assumptions are carried over from past estimates.

4.1.2 PLATFORM PROJECT ASSOCIATION TO JOB

In Estimate, you create a job that represents your project estimate and all the information associated with it. This job must be associated with a project in InEight Platform that represents the overall construction project being managed by your organization, from planning to execution and turnover.

When you select to create a new job, in the New Job window, select a project in the Core Project field drop-down list to associate to your job in Estimate. Core project refers to a project in Platform.



Because projects in Platform are organized in an Organizational Breakdown Structure, associating your job (estimate) to a project in Platform allows your estimates to be included in that organizational structure.

After the job you create is associated to a Platform project, in the Job Register, you can view the job in the context of your organization breakdown structure. In the example below, the job register is filtered to the Tantalum Group > Estimating > **Site Work** level of the organization. Under project ID number 5013592, you can see two jobs, the original estimate and a second version.

The screenshot shows the 'Job Register' interface. On the left is a tree view of organizations under the 'Organization' header. The tree includes 'Tantalum Group' (expanded), 'Archive', 'Assets', 'East', 'Estimating' (expanded), 'Industrial Sector', 'Paving', 'Renovation', 'Site Work', 'Program 1', 'Stampede Ventures', and 'West'. On the right is a table with columns: Proj... ID, Code, In Use, Description, Status, Project Name, and Organization. The table contains several rows of project data.

Proj... ID	Code	In Use	Description	Status	Project Name	Organization
4985362		1				
4985362	4985362	<input type="checkbox"/>	2020 Clow Creek Shoreline Restoration	Bidding	2020 Clow Cree...	Site Work
4992404		1				
5013592		2				
5013592	5013592	<input type="checkbox"/>	Springbrook Golf Course Dynamic Sign In...	Bidding	Springbrook Gol...	Site Work
5013592	5013592-v2	<input type="checkbox"/>	Springbrook Golf Course Dynamic Sign In...	Bidding	Springbrook Gol...	Site Work
5013787		1				

For more information, see [Job Register Overview](#).

CREATE A NEW JOB FROM SCRATCH

1. From the Backstage view, select to create a new job from **scratch**.
2. In the New Job dialog box, click in the **Core Project** field to select a Platform job from the list.
3. Modify the **Code** field as needed.
4. Enter a description of the job in the Description field.
5. Determine if you want to select the **Auto-Update Job in Connected Analytics** check box.
6. Click **OK** to create the new project.

RELEVANT LINKS

Job Register

Archive and restore jobs

Video - Create a job

Video - Associate Estimate with a Platform project

4.2 PROJECT CREATION

You can create new projects in InEight Platform's root and sub-organizations to which you can then associate Estimates jobs. For example, you can create new projects in a node of the organization dedicated to estimating, permitting estimators to create and manage projects for the opportunities they are pursuing while allowing the rest of the organization to maintain a higher level of security over active projects.

For more information about project creation, see [Project Initiation](#) in Platform.

4.2.1 CONSIDERATIONS

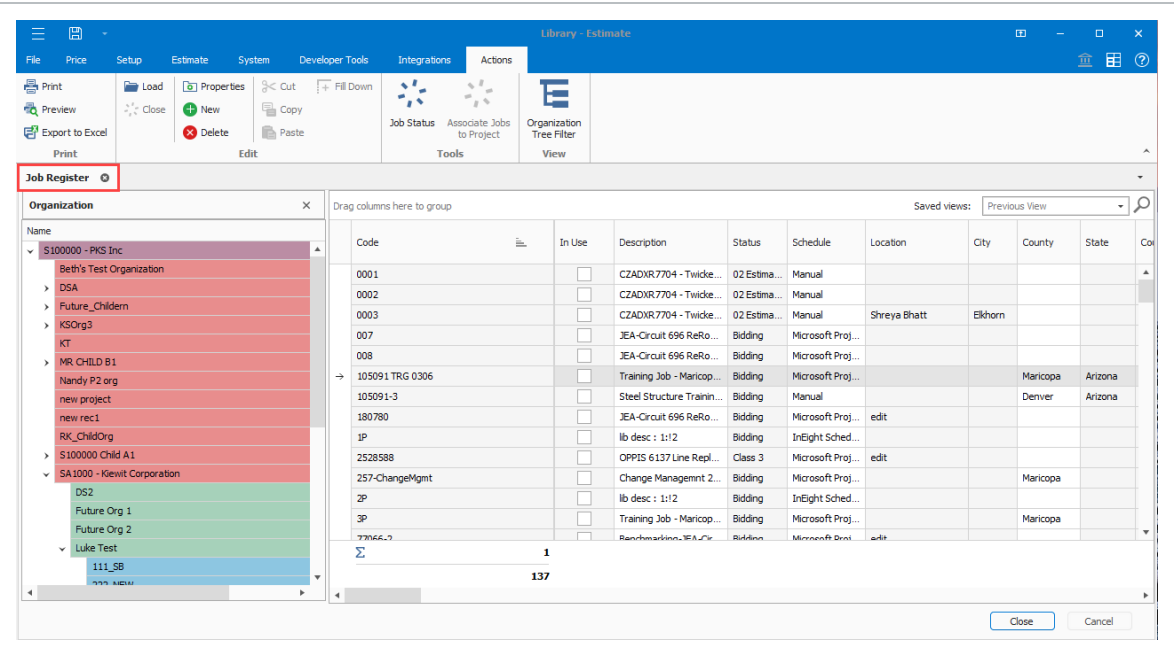
You must have a Level 3-Account Admin role or the Add projects permission in your role.

RELEVANT LINKS

- Video - Associate Estimate with a Platform project
- Video - Create a job

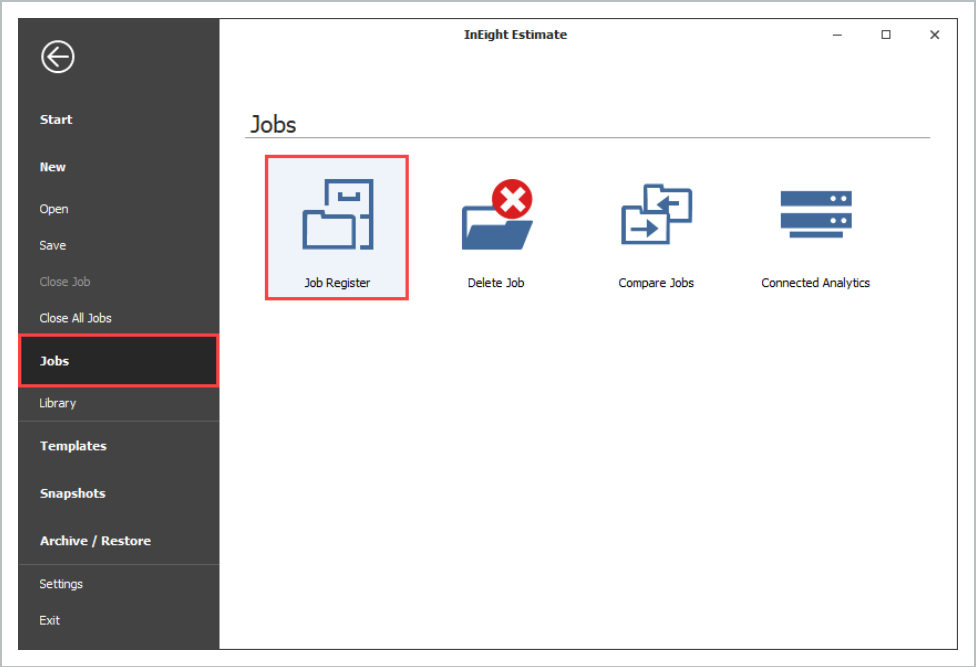
4.3 JOB REGISTER OVERVIEW

The Job Register contains all the jobs created by your organization and includes columns showing job properties and other job details to make it easy to view, group by, and filter job information for job management and reporting purposes.

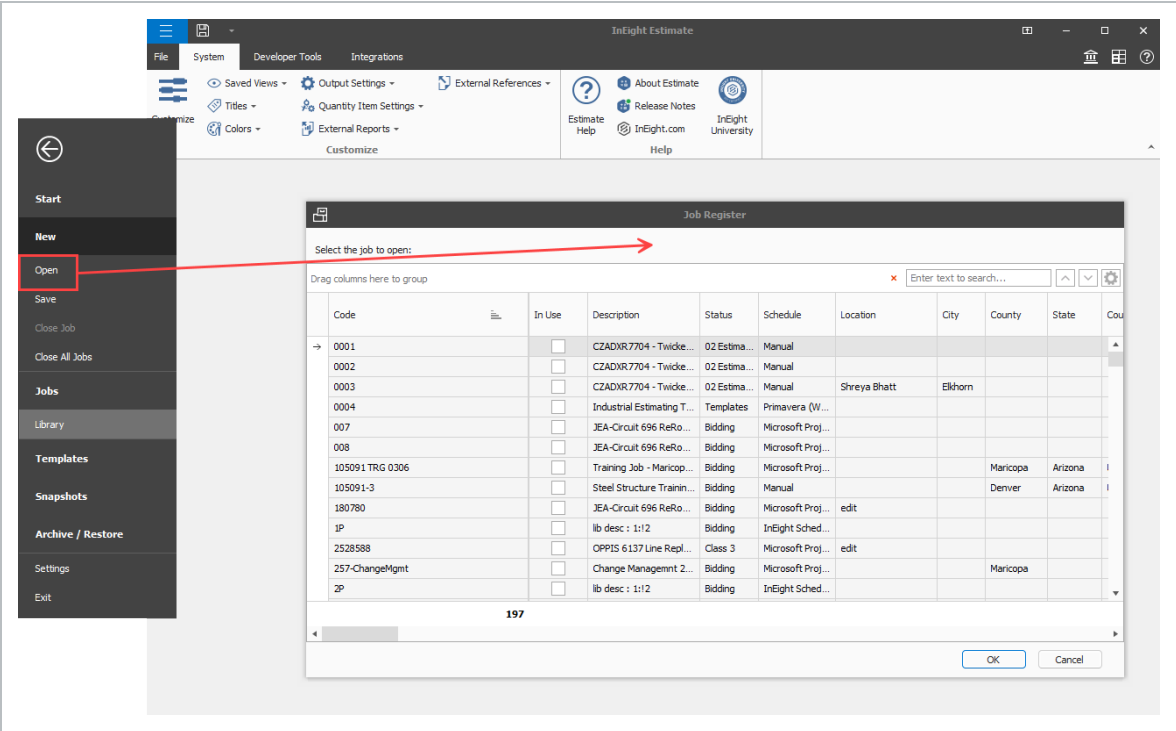


4.3.1 OPEN THE JOB REGISTER

You can access the Job Register from the Backstage view by selecting File > Jobs > **Job Register**.



A non-editable version of the Job Register opens where you can select a job to open. Click File > **Open** to open the non-editable Job Register.



RELEVANT LINKS

Video - Create a job

Video - Working with registers

4.4 MANAGE JOBS FROM THE JOB REGISTER

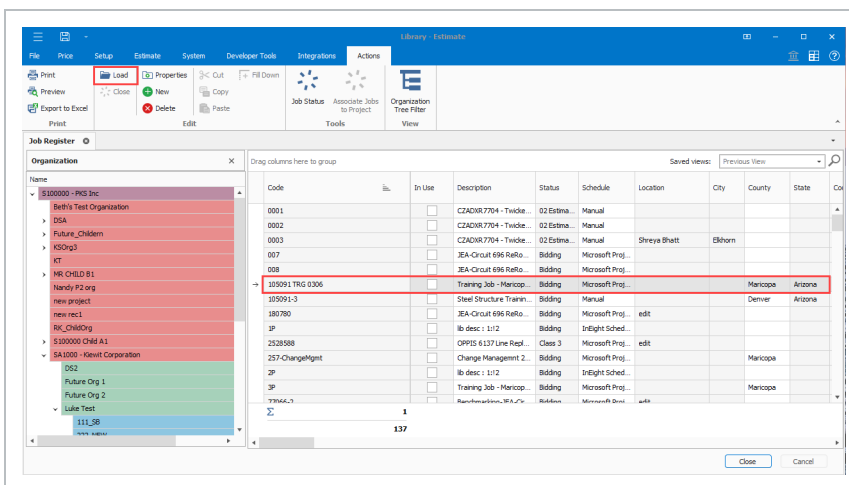
The Job Register lets you perform many tasks to manage your jobs. You can perform tasks such as:

- Load jobs.
- Edit job details
- Open and edit a job's properties.
- Use the columns to group jobs.
- View and upgrade data versions.

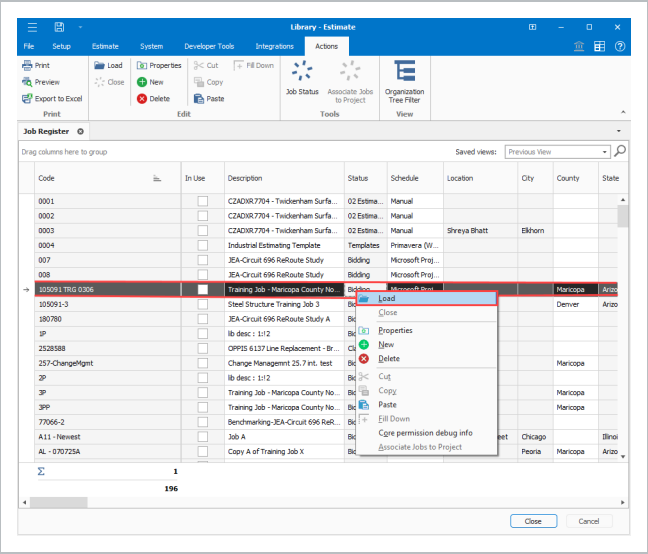
4.4.1 LOAD A JOB FROM THE JOB REGISTER

You can load (open) a job from the Job Register by:

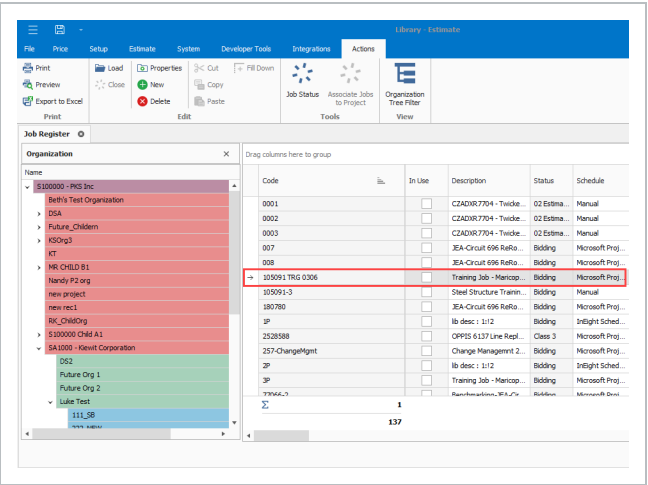
- Selecting a job, and then clicking **Load** from the **Actions** tab.



- Right-clicking on a job's row header, and then selecting **Load**.



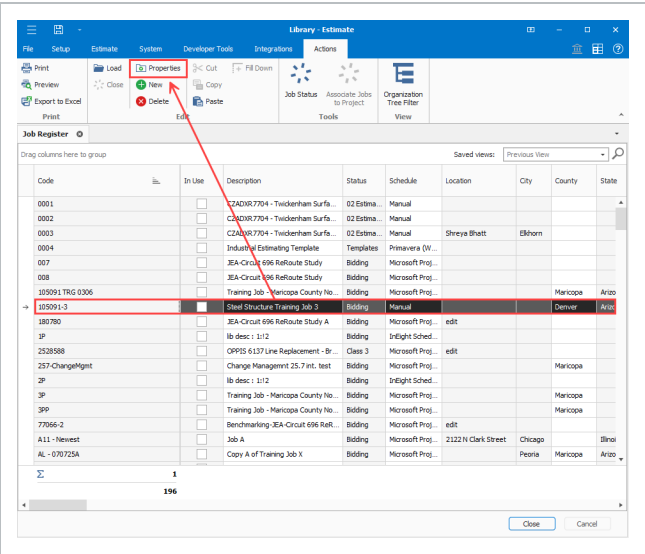
- Double-clicking the row header of a job.



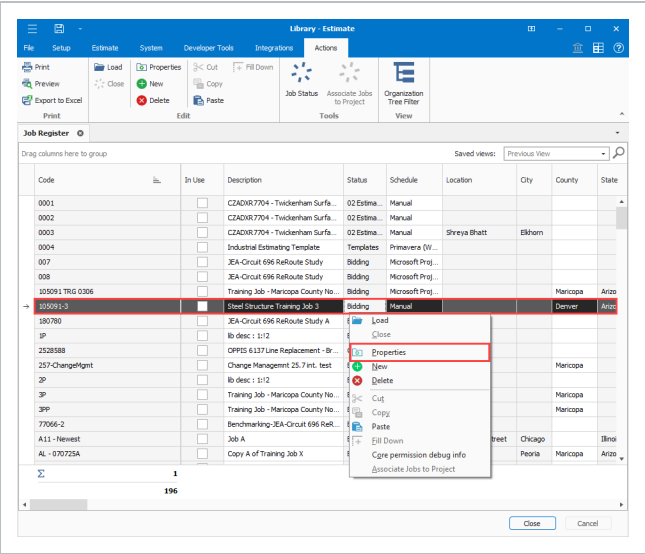
4.4.2 OPEN A JOB'S PROPERTIES FROM THE JOB REGISTER

You can also open the Job Properties form of a job from the Job Register by:

- Selecting a job, and then clicking **Properties** from the **Actions** tab.



- Right-clicking a job's row header, and then selecting **Properties**.



4.4.3 EDIT JOB DETAILS

Many fields in the Job Register are editable, so you can make changes to job details directly in the register without needing to open the job and its job properties.

The table below summarizes key columns available in the Job Register and indicates which of them are editable.

Columns	Description	Editable from Register
Job Properties Cover Sheet related columns	Columns such as job status, location, city, state, country, engineer, owner, architect, estimator, contract duration, forecast start and finish dates, and liquidated damages.	Yes, for fields that only exist in Estimate. No, for fields that come from the associated Platform project.
Quote Management	Quote information including Request for Quote (RFQ) contact and minority info.	Yes
Job Folder Tags	Custom tags defined by your organization for organizing and managing jobs.	Yes
Project/Organization	The Project ID, Project Name, and Organization level associated with each job.	No. The Project ID fields contain links that take you to the project's details within Platform.
Notes	General notes entered for the job.	Yes
Project Notes	Notes entered in the project's details in Platform.	No
Last Saved	The date and time the job was last saved.	No
Job Created By	The name of the user that created the job.	No
Source Job	The source job or template the job was created from (if it wasn't created from scratch).	No
Upgrade Required	The column check box is selected if the job was created in a previous release of Estimate and therefore needs to be upgraded to the latest release.	No

You can make changes in the register by clicking in any editable field and editing the content. This includes free-form text fields and validated fields with drop-down lists.

When changes are made, the register's *Close* button changes to the *Save Modified Jobs and Close* button, which you can select to save changes and close the register.

The screenshot shows the 'Job Register' window with the 'Multi-Edit Job Properties' tab selected. The dialog is divided into two main sections: 'Identification' and 'Proposal'. The 'Identification' section contains fields for Location, City, County, Country (set to 'United States O...'), State (set to 'Arizona'), Latitude, Longitude, Type, Engineer, Owner, Architect, Contract Duration, Time Measure, Forecast Start, Forecast Finish, and Duration. The 'Proposal' section contains fields for Bid Date, Bid Time (set to '12:00 AM'), Estimator, Opening Type, Proposal Type, and Plan Holders. All fields are currently set to 'Varies' or have placeholder text. At the bottom right, there are 'Save' and 'Cancel' buttons.

- 3. Edit fields in Job Properties as needed, and then click **Save**. The changed properties are updated in the Job Register.

4.4.5 OBS FILTER TREE

You can use the organization tree filter to see where estimates are located in the OBS.

When the Organization Tree Filter is enabled, you can see the jobs that are associated with an organization tree node in the new OBS filter tree. This helps you to quickly locate and organize estimates inside of an organization hierarchy.

Library - Estimate

File

Setup

Estimate

System

Integrations

Actions

Print

Preview

Export to Excel

Load

Close

New

Delete

Properties

Copy

Paste

Cut

Fill Down

Job Status

Upgrade Jobs

Organization Tree Filter

Print

Edit

Tools

View

Job Register

Organization

Name

Root Organization

AERST Team

AERST - NE Div

Front Range

Mountains Division

Southwest Division

Alula

Company VS - Maintenance

Compliance Team

Country

Location

Customer Support

C-XYZ-ND

C-XYZ-ND-BC

C-XYZ-ND-HC

C-XYZ-ND-M

Drag columns here to group

Code	In Use	Description
04 - Substation Storehouse	<input type="checkbox"/>	Substation Storehouse
06-082022	<input type="checkbox"/>	Ellingson Test Template
1016PF	<input type="checkbox"/>	Page Facility Upgrade
1018WF	<input type="checkbox"/>	Williams Facility Maintenance
1019GC	<input type="checkbox"/>	Globe Center Re Haul
10482	<input type="checkbox"/>	Abuanga - Revenue Management
104827	<input type="checkbox"/>	Revenue Management - Abuanga
104827-3	<input type="checkbox"/>	This is only a description test....
104827-CERT	<input type="checkbox"/>	Norton High School Football Complex - E...
104827-CERT EM	<input type="checkbox"/>	Norton High School Football Complex - E...
104827-EST	<input type="checkbox"/>	Norton High School Football Complex
105091KL	<input type="checkbox"/>	Steel Job 091KL
105093 Steel training job	<input type="checkbox"/>	Steel Structure Training Job 3
111222v2	<input type="checkbox"/>	BI Testing Job 111222 v2

If you group by Project ID, and then select a node in the organization, you can see all the projects and their associated estimates belonging to that part of the organization. For example, there are three estimates associated with project 4985362 and one estimate associated with projects 4992404, 5013592 and 5013787. This view shows you the relationship between all the project and estimate associations.

Job Register

Organization

Name

InEight Demo Inc.

Commercial

DBSol

EQW

Industrial

Infrastructure

Mining

Oil and Gas

RS Means

TS

Project ID

Proj... ID	Code	Description
4985362		3
4985362	4985362	2020 Clow Creek Shoreline Restoration
4985362	4985362-v2	2020 Clow Creek Shoreline Restoration - revised per Addendum #1
4985362	4985362-v3	2020 Clow Creek Shoreline Restoration - revised per Addendum #2
4992404		1
4992404	4992404	2020 Concrete Repairs Program
5013592		1
5013592	5013592	Springbrook Golf Course Dynamic Sign Install
5013787		1

4.4.6 DATA VERSION AND UPGRADE REQUIRED COLUMNS

There are two columns in the Job Register that help you identify a job’s current data version and whether an upgrade is required for the job:

- **Data Version** - Identifies the current data version of the job which might be different from the Estimate application version. This column is not part of the standard view and must be added.
- **Upgrade Required** - identifies jobs that require an upgrade to match the current database version before they can be used in the application. The jobs that require an upgrade have the check box selected.

Library - Estimate

File Setup Estimate System Developer Tools Integrations Actions

Print Preview Export to Excel

Load Close New Delete

Cut Copy Paste

Job Status Associate Jobs to Project Organization Tree Filter

Tools View

Job Register

Organization

Name

S100000 - PKS Inc

Future_Childern

KT

MR CHILD B1

MR org_01

new project

new rec1

S100000 Child A1

Drag columns here to group

Code	Project ID	Data Version	Upgrade Required	In Use	Description
SJ- Project 1-SCE 1- 2nd restore	SJ- Project 1	24.7.0.3	<input type="checkbox"/>	<input type="checkbox"/>	Movie 66/16 - FAN De
ZZZ-OBFUSCATE	Training Job	24.5.0.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Description
SR	AL - A11	24.5.0.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	lib desc : 1:12
Obfuscate 20250625	105869	24.5.0.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Description
DP-OnPrem	0002	24.7.0.3	<input type="checkbox"/>	<input type="checkbox"/>	Training Job - Maricop
new3	*25.5 - Estimate	24.7.0.3	<input type="checkbox"/>	<input type="checkbox"/>	CZADXR.7704 - Twicke

RELEVANT LINKS

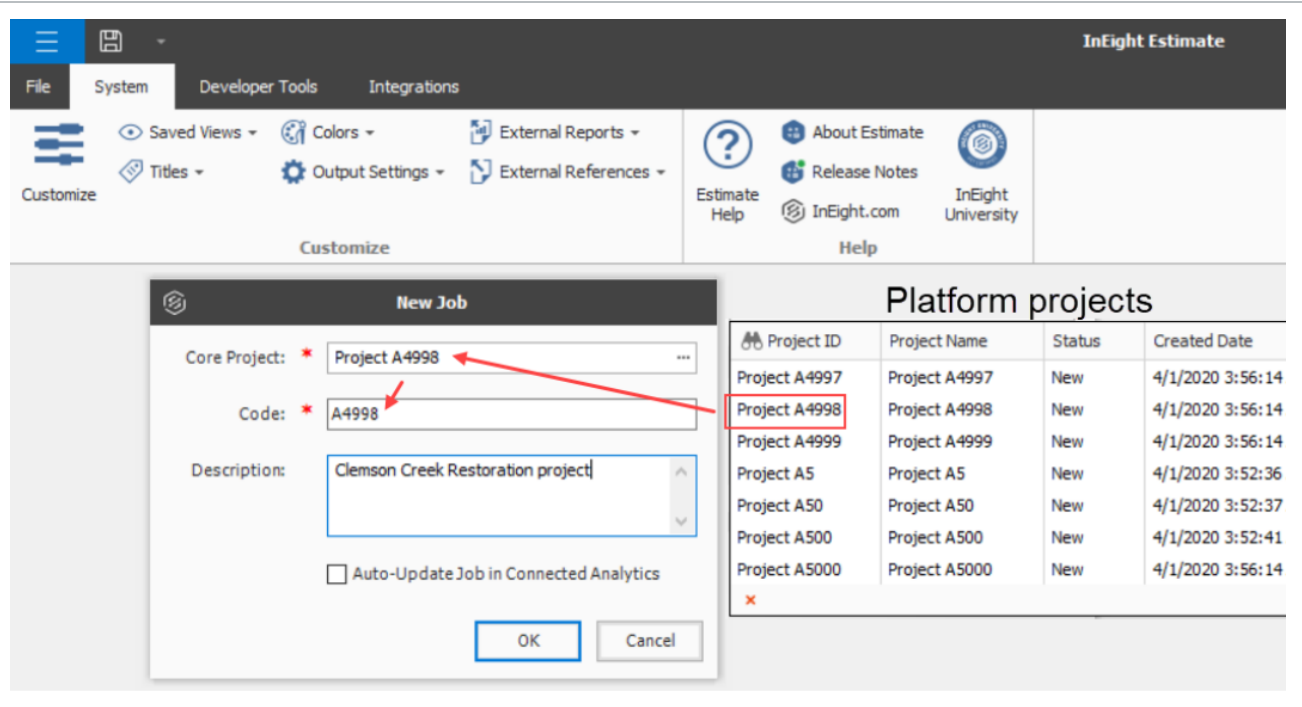
Video - Create a job

Video - Associate Estimate with a Platform project

4.5 INEIGHT PLATFORM PROJECT ASSOCIATION

To create a job in Estimate, you must associate it to a project in Platform. Associating Platform projects lets you organize estimates directly from Platform’s Organizational Breakdown Structure (OBS). Your location assignment in the OBS determines the access you inherit and the visibility you have to other areas of the OBS. For more information about associating a job to Platform, see [Job Creation](#).

Extracting Platform project master data directly into Estimate promotes data consistency and helps ensure that the data is being pulled from a single source of truth.



Platform project-specific master data is maintained in one place, and then flows directly into Estimate in the cloud. Certain project data such as location and forecast start and finish dates are maintained in Platform which helps to enforce data consistency and reduce duplicate entries.

The table below shows the fields maintained in Platform's Project details that integrate with the Estimate's Overview tab in Job Properties.

InEight Platform	InEight Estimate
Project ID	Project ID
Organization	Organization
Name	Project Name
Notes	Project Notes

The table below shows the fields maintained in Platform's Project details that integrate with the Estimate's Cover Sheet tab in Job Properties.

InEight Platform	InEight Estimate
Address 1	Location
City	City
Country/Region	Country
State	State
Latitude	Latitude
Longitude	Longitude
Forecast start date	Forecast Start
Forecast finish date	Forecast Finish

In Estimate, the Project ID field is a hyperlink field. You can click the hyperlink to navigate directly to the project Details page in Platform.

Code	Project ID	In Use	Description	Status	Schedule	Location	City	County	State	Country	Latitude
Checking Allocation of DCI	Training Job	<input type="checkbox"/>	for those of you who ...	Bidding	Microsoft Proj...	edit					0.00
CRO WO Report for 902564690	105869	<input type="checkbox"/>	CRO WO Report for 9...	03 Peer ...	Manual		Fort S...	Rurals	Alberta	Canada	53.71
DP	*25.3 - AWP Re...	<input type="checkbox"/>	Hwy 17, Schreiber - R...	1 OUT O...	Microsoft Proj...			Thunder B...			0.00
DP-OnPrem	0002	<input type="checkbox"/>	Training Job - Maricop...	Bidding	Microsoft Proj...			Maricopa			0.00
KMP2-01-RDS-BLDG	KMP2-251	<input type="checkbox"/>	Restored after Genesi...	Bidding	Manual				Utah	United Stat...	0.00
KMP2-02-115-LaytonXing	KMP2-251	<input type="checkbox"/>	I-15 Layton Crossing	11 Lost	Manual			Davis	Utah	United Stat...	0.00
KMP2-04-RDS-INFRA-DOT-2	KMP2-251	<input type="checkbox"/>	RDS - Infrastructure - ...	Bidding	Manual			County	Utah	United Stat...	0.00
KMP2-11-Pay-Items-Import	KMP2-251	<input type="checkbox"/>	Pay Items import testi...	Bidding	InEight Sched...				Utah	United Stat...	0.00
KMP2-20-TJ	KMP2-251	<input type="checkbox"/>	Training Job - KMP2	Bidding	InEight Sched...			Maricopa	Utah	United Stat...	0.00
KMP2-24-Currency-Test	KMP2-251	<input type="checkbox"/>	Currency test - Austr...	Bidding	InEight Sched...				Utah	United Stat...	0.00
KMP2-25-410-005-2	KMP2-251	<input type="checkbox"/>	InEight NOW: Health ...	Bidding	Manual				Utah	United Stat...	0.00
KMP2-31-Virachoca	KMP2-251	<input type="checkbox"/>	Renewable Energy	Bidding	Microsoft Proj...				Utah	United Stat...	0.00
KMP2-32-March-AFB	KMP2-251	<input type="checkbox"/>	March AFB - KC-4618...	Bidding	Microsoft Proj...			Los Angeles	Utah	United Stat...	0.00
KMP2-5J-SMP-Job	KMP2-251	<input type="checkbox"/>	SMP Data base	Bidding	Microsoft Proj...				Utah	United Stat...	0.00
KSProject4	KSProject4	<input type="checkbox"/>	lib desc : 1:12	Bidding	InEight Sched...						0.00
KSProject4-New	KSProject4	<input type="checkbox"/>	lib desc : 1:12	Bidding	InEight Sched...						0.00

Modifications made to any of the integrated fields in Platform automatically show in Estimate. For example, when you change the name of the project in Platform to show the year 2025 instead of 2023, the change reflects in the in the Job Properties Project Name field form in Estimate.

4.5.1 JOB REGISTER GROUPED BY PLATFORM PROJECT

Grouping by organization lets you see projects batched in an organizational breakdown level, and lets you see a listing of projects in an organizational breakdown format and projects derived in Platform.

Job Register

Organization

	Organization	Source Job	Project Name	Description	de	Status	Schedule	Le
→	Unassigned							
	Estimate Infrastructure							
	Estimate Mining							
→	Estimate Power							
	Estimate Power	TJ	SR-2023FEB	restored tj	.00000	Bidding	Microsoft Proj...	
	Estimate Power	SaaS-FullImport232	SR-DB1		2.07414	Bidding	Primavera	
	Estimate Power	DWH-2	SR-2023FEB	SR-2023FEB	.00000	Bidding	Microsoft Proj...	
	Estimate Power	SR-Job2	SR-2023FEB	from existing	.0000	Bidding	Microsoft Proj...	
	Estimate_Infrastructure_South Central							
→	S100000 - PKS Inc							
	S100000 - PKS Inc		Rail	Rail	.00000	Bidding	Microsoft Proj...	
	S100000 - PKS Inc		S1201--name	S1201	.00000	Bidding	Microsoft Proj...	
	S100000 - PKS Inc	SR-Job3	03102022	03102022	.00000	Bidding	Microsoft Proj...	
	S100000 - PKS Inc	KwtSaaS2212-Sel	226-SR		.0000	Bidding	Primavera	
	S100000 - PKS Inc	DB-0209	New project name: 2:38	SR- TEST API-123	.000	Bidding	Manual	
	S100000 - PKS Inc	new proj		API Job from Import	.000	Bidding	Microsoft Proj...	

Previous View

CloseCancel

4.5.2 MANAGE MULTIPLE ESTIMATE VERSIONS IN THE JOB REGISTER

An advantage to associating Estimate with Platform project data is the ability to manage multiple versions of estimates from one source project.

For example, if you have multiple addendums issued for the same project, you can maintain a version of the estimate for each addendum you’ve received.

Job Register

Drag columns here to group

	Project ID	Description	Country	State	City	Latitude	Longitude
	4985362	2020 Clow Creek Shoreline Restoration - Per Addendum 1	United Stat...	Illinois	Naperville	41.77287	-88.14793
	4985362	2023 Clow Creek Shoreline Restoration - Per Addendum 2	United Stat...	Illinois	Naperville	41.77287	-88.14793
	4985362	2023 Clow Creek Shoreline Restoration - Per Addendum 3	United Stat...	Illinois	Naperville	41.77287	-88.14793
	4985362	2023 Clow Creek Shoreline Restoration - Per Addendum 4	United Stat...	Illinois	Naperville	41.77287	-88.14793
	4985362	2023 Clow Creek Shoreline Restoration - Per Addendum 5	United Stat...	Illinois	Naperville	41.77287	-88.14793

Grouping estimates together using a common project means there is no need to structure and enforce a job coding schema in Estimate on the Job Code, tag fields, or user defined fields to identify and manage different versions of a project in the Job register.

Job Register

Project ID

Proj ID	Description	Country	State	City	Latitude	Longitude
Unassigned						
→ 4985362						
4985362	2020 Clow Creek Shoreline Restoration - Per Addendum 1	United Stat...	Illinois	Naperville	41.77287	-88.14793
4985362	2020 Clow Creek Shoreline Restoration Project - Original Estimate	United Stat...	Illinois	Naperville	41.77287	-88.14793
4985362	2020 Clow Creek Shoreline Restoration Project - Per Addendum 1	United Stat...	Illinois	Naperville	41.77287	-88.14793
4985362	2023 Clow Creek Shoreline Restoration - Per Addendum 2	United Stat...	Illinois	Naperville	41.77287	-88.14793
4985362	2023 Clow Creek Shoreline Restoration - Per Addendum 3	United Stat...	Illinois	Naperville	41.77287	-88.14793
4985362	2023 Clow Creek Shoreline Restoration - Per Addendum 4	United Stat...	Illinois	Naperville	41.77287	-88.14793
4985362	2023 Clow Creek Shoreline Restoration - Per Addendum 5	United Stat...	Illinois	Naperville	41.77287	-88.14793
4985922						
4992404						
4996059						

RELEVANT LINKS

- Platform — Project initiation
- Job creation
- Video — Create a job
- Video — Associate Estimate with a Platform project

4.6 JOB PROPERTIES

When you create a new project, the Job Properties form automatically shows. This is where you can enter basic information about the project. You can access Job Properties on the InEight Estimate landing page > Setup > **Job Properties**.

4.6.1 OVERVIEW TAB

The Job Properties form opens to the Overview tab. The image and table below show the Overview options:

File

Setup

Estimate

Quote

Price

System

Integrations

Job Properties

Foundation Setup Data

Pay Item & Proposal

Bid Wizard

Resources

Labor

Equipment

Materials

Resource Assemblies

Cost Item Assemblies

Standard Tables

Reports

Initialize

Resources

Assemblies

Reports

Job Properties

Structure (CBS) Register

Job Properties

Overview

Cover Sheet

Cost Basis

Minority Setup

Fuel Cost

Job Folder Tags

Pricing

Schedule

Cash Flow

Equipment Maintenance

Benchmarking

Alternates

1

Code: 101-1

2

Status: Bidding

3

Project ID: 101

4

Organization: S100000 - InEight Inc

5

Description: Training Job - Maricopa County No. TM2924

6

Project Name: projectNameis 101

7

Notes: Use this field to record notes, information, special provisions, unusual conditions, etc. You will also find many other places to enter notes in your estimate. You might use this area to enter general job type information and enter more specific notes at the item or record level.

Example: Embankments shall be so constructed that adequate surface drainage will be provided at all times. Roadway embankment materials that consist predominantly of soil shall be placed in horizontal layers not to exceed 250 millimeters (ten inches) in depth before compaction, and each layer shall be compacted to a density not less than 95 percent of maximum density. Unless otherwise specified, the top 150 millimeters (six inches) of the roadbed in both cut and fill sections shall be compacted to 95 percent of maximum density. Maximum density and optimum moisture will be determined by the Engineer in accordance with the "Standard Method of Test for Moisture Density Relationship of Soils Using a 2.5 kilograms (5.5 Pound) Rammer and a 305 millimeter (12-inch) Drop", AASHTO T 99, Method C. The determination of the density of the soil in place will be in accordance with an approved AASHTO method. Placing and compacting areas shall be kept separate.

8

Project Notes: core.project 101 notes.edit

Last Saved: 9/24/2024 10:18:35 AM

Job created by: marappa@ineight

9

Source Job: Training Job

10

OK

Cancel

Overview Tab

Name		Description
1	Code	The name of the Estimate job. The name cannot be changed.
2	Status	Current state of the job, such as Bidding, Awarded, or Completed. <ul style="list-style-type: none">When searching for jobs in the Job Folders list, you can filter and sort jobs by their

Overview Tab (continued)

Name	Description
	<p>status.</p> <ul style="list-style-type: none"> You can set statuses for jobs to fit your company requirements in the Jobs Register > Actions > Tools > Job Status.
3	<p>Project ID</p> <p>Information in this field originates from the Platform project the estimate is associated with and cannot be changed. You can click the Project ID link to navigate to the project in Platform.</p>
4	<p>Organization</p> <p>Information in this field originates from Platform.</p>
5	<p>Description</p> <p>You can enter a job description. You can edit the description any time.</p>
6	<p>Project name</p> <p>Information in this field originates from the Platform project the estimate is associated with and cannot be changed.</p>
7	<p>Notes</p> <p>Add estimate related information, such as when creating multiple versions of an estimate for the same Platform project. For example, you can enter <i>This version is per addendum #1</i> or <i>This version is per a specified design change</i>, or <i>This version of the estimate is incorporating last minute changes</i>.</p>

Overview Tab (continued)

Name		Description
8	Project Notes	Information in this field originates from the Platform project the estimate is associated with. The notes can be added and edited at any time in Platform to document specific project-level details.
9	Job created by	Indicates the user or entity that initially created the job.
10	Source job	The name of the original job that the job was copied from.

NOTE

When you copy a job, the new job shows the name of the person who created the copied job, and the name of the source job the job was copied from.

4.6.2 COVER SHEET TAB

The Cover Sheet tab is where you can define much of the general information about the project. It includes fields to identify the job's location, contacts, and bid details.

The following fields are available:

- Job Location
- City, County, Country, Province/State
- Job Type
- Engineer
- Owner
- Architect
- Forecast Start and Forecast Finish
- Bid Date and Bid Time
- Bid Location
- Estimator
- Opening Type and Proposal Type

- Liquidated Damages (if applicable)

Cost Breakdown Structure (CBS) Register Job Properties

Overview Security Cover Sheet Cost Basis Minority Setup Fuel Cost Job Tracking Job Folder Tags Competitors Pricing Schedule Cash Flow Equipment

Identification

Location: I-10 MP 100 to MP 120 Type: Highway and General Engineering Contract Duration: 160

City: Phoenix Engineer: Example Engineer -- Fred Jones Time Measure: Contract Days

County: Maricopa Owner: Example Owner -- Jerry Slate Forecast Start: 1/6/2014

Country: United States Architect: Example Architect -- Robert Frost Forecast Finish: 6/5/2014

State: Arizona Duration: 150

Latitude: 0.00000

Longitude: 0.00000

Proposal

Bid Date: 12/23/2013 Opening Type: Public

Bid Time: 10:00:00 PM Proposal Type: Unit Price

Estimator: Example Prime Contractor 1 -- Tom Cross Plan Holders: 5

OK Cancel

The fields on this tab can be helpful for historical reference and job classification. It is good practice to complete as many of these fields as possible, so you can reference and find the project later. These fields can be updated as needed at any time.

4.6.3 COST BASIS TAB

The Cost Basis tab has some important settings that will affect how costs are calculated in your estimate. The settings reviewed below are the ones you need to consider.

Name		Description
1	Standard Shift Arrangements	The default standard shift arrangements are set up as 8 hours per shift, 1 shift per day, and 5 days per week; this can be changed if a project requires a different standard shift arrangement.
2	Standard Wage Rate Composite:	Allows you to indicate what percentage of your labor hours will be regular time (Scale 1), overtime (Scale 2) or double time (Scale 3). You can enter these percentages manually, or you can use the Shift Rate Calculator to obtain a more accurate figure.
3	Lock Cost Items to Pay Items:	For this sample job, you will check this box. When Cost Items are locked to Pay Items, your level 1 estimate structure is controlled by your list of pay items.
4	Default Currency:	The default will be set to U.S. Dollar, but this can be changed if needed.

Name		Description
5	Sales Tax Rate:	This field is not required but may be used to automatically apply a sales tax to all your material and rental items. The default is set to zero.

Cost Basis Tab Overview

Job Properties

Overview

Security

1 Cover Sheet

Cost Basis

2 Minimum Setup

Fuel Cost

Job Tracking

Job Folder Tag

3 Competitors

Pricing

Schedule

Cash Flow

Equipment

Standard Shift Arrangements

Work Hours per Shift: 8.00

Pay Hours per Shift: 8.00

Shifts per Day: 1.00

Days per Week: 5.00

Standard Wage Rate Composite

Scale 1: 100.00 %

Scale 2: 0.00 %

Scale 3: 0.00 %

Shift / Rate Calculator

Rules

☒ Lock Cost Items to Pay Items

Pay Item Unit Price Precision: 2

☐ Preserve Original Cost Item Data Source

☐ Activate PBS Changes Log

☐ Activate Quantity Checking

☐ Maintain CBS Structure at Level: 0

When man-count changes:

☒ Change UM / Man-Hour

☐ Change Days

Currency

Default Currency: U.S. Dollar

Standard Rates

Sales Tax Rate: 5.00 %

4 Resource / Assembly Filter

Resource / Assembly Type

Labor Rate

Construction Equipment R...

Restored Construction Equi...

Resource / Assembly File ...

☒ [All]

☐ [None]

< Back

Next >

Geographic Area

☒ [All]

☐ [None]

< Back

Next >

Wage Zone

☐ [All]

☐ [None]

< Back

Next >

Organizational Category

☒ [All]

☐ [None]

< Back

Next >

Import Filtered Resources

OK

Cancel

4.6.4 SHIFT RATE CALCULATOR

Take a closer look at calculating your shift rates using the Shift Rate Calculator. For this example, you will walk through setting up 2 shifts for your project.

STEP BY STEP – SHIFT RATE CALCULATOR

1. On the Job Properties > Cost Basis tab, select the **Shift Rate Calculator** button.

The screenshot shows the 'Job Properties' window with the 'Cost Basis' tab selected. In the 'Standard Wage Rate Composite' section, the 'Shift / Rate Calculator' button is highlighted with a red rectangle. Other visible fields include 'Standard Shift Arrangements' (Work Hours per Shift: 8.00, Pay Hours per Shift: 8.00, Shifts per Day: 1.00, Days per Week: 5.00), 'Rules' (Lock Cost Items to Pay Items: checked, Pay Item Unit Price Precision: 2), and 'Standard Rates' (Sales Tax Rate: 0.00 %).

2. For Shift 1, type a **number value** of hours in the **Monday through Friday Work Hours** fields.
 - You can enter up to three shifts for the project
3. For Shift 1, type a **number value** of hours in the **Scale 1** fields.
 - Scale 1 will be your regular time and Scale 2 will be any overtime

The screenshot shows the 'Shift / Rate Calculator Record - Training Job' window. It contains a table for 'Shift 1' with columns for Monday through Sunday and a 'Totals' column. The 'Work Hours' row shows 10.00 for Monday through Friday and 0.00 for Saturday and Sunday, with a total of 50.00. The 'Scale 1' row shows 0.00 for all days, with a total of 0.00. The 'Scale 2' and 'Scale 3' rows also show 0.00 for all days and totals.

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Totals
Shift 1								
Work Hours	10.00	10.00	10.00	10.00	10.00	0.00	0.00	50.00
Scale 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scale 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scale 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Enter a **number value** for hours in the **Scale 2** fields (just Monday through Friday).
5. For Shift 2, type a **number value** for hours as you did above in Step 3.
6. Click **OK**.

The screenshot shows the 'Shift 2' table with the same structure as Shift 1. The 'Work Hours' row shows 12.00 for Monday through Friday and 0.00 for Saturday and Sunday, with a total of 60.00. The 'Scale 1', 'Scale 2', and 'Scale 3' rows show 0.00 for all days and totals.

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Totals
Shift 2								
Work Hours	12.00	12.00	12.00	12.00	12.00	0.00	0.00	60.00
Scale 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scale 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scale 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

- Now you have a blended shift arrangement, and your labor rates are a blend of 64.18% straight-time and 35.82% overtime

Job Properties ✕

Overview Security Cover Sheet **Cost Basis** Minority Setup Fuel

Standard Shift Arrangements

Work Hours per Shift:

Pay Hours per Shift:

Shifts per Day:

Days per Week:

Standard Wage Rate Composite

Scale 1: %

Scale 2: %

Scale 3: %

Shift / Rate Calculator

4.6.5 IMPORT FILTERED RESOURCES

You may have noticed the bottom portion of your Cost Basis tab called the Resource Filter.

Resource / Assembly Filter

Resource / Assembly Type

- ☒ Labor Rate
- ☐ Construction Equipment R...
- ☐ Rented Construction Equi...
- ☐ Installed Material Rate
- ☐ Installed Equipment Rate
- ☐ Supply Rate
- ☐ Unique Rate
- ☐ Resource Assembly
- ☐ Cost Item Assembly
- ☐ Standard Table

Resource / Assembly File ...

- ☒ [All]
- ☐ [None]
- ☐ [Non-Blanks]
- ☐ Standard Labor Rate File

Geographic Area

- ☒ [All]
- ☐ [None]
- ☐ [Non-Blanks]
- ☐ Southwest

Wage Zone

- ☒ [All]
- ☐ [None]
- ☐ [Non-Blanks]
- ☐ Wage Zone A
- ☐ Wage Zone B

Organizational Category

- ☒ [All]
- ☐ [None]
- ☐ [Non-Blanks]
- ☐ Truck Driver - Teamster
- ☐ Supervision
- ☐ Carpenter
- ☐ Welder
- ☐ Mechanic
- ☐ Operator
- ☐ Remediation
- ☐ Laborer
- ☐ Iron Worker
- ☐ Finisher - Concrete

Select your filters from left to right

OK Cancel

The Resource Filter portion of the Cost Basis tab is the most important part of Job Properties. You use it to import your labor, equipment, and materials from the Library. Until you import filtered resources, you have no resources (labor, equipment, materials) in your project.

Updated resource rates can be imported into the Library on a regular basis. It is important to update and have the “Latest & Greatest” rates available to import into your estimates.

You will import the rates you need using a set of four filters called Resource Attributes. Especially for labor rates, filtering by these attributes allows you to pare down the master list to just the resources you need.

Each of the resource filter categories are open for use as determined best by your business. The following are examples of common uses:

Resource Attribute Filters	
Name	Description
Resource File Description	This attribute can be used to designate the rate type or the year to which the rates pertain.
Geographic Area	This attribute is used to designate regions, cities, or provinces based on geographical location of a project.
Wage Zone	This attribute is typically used specifically for labor resources. For example, it may designate the trade and union agreements your labor resources belong to.
Organizational Category	This attribute can be used to designate what trade or work type your resources pertain to.

Resource filters become more specific from left to right, so it makes sense to start with Resource File Description and end with Organizational Category. The geographic area, wage zone and organizational category attribute titles can be changed to meet your business needs for filtering resources.

TIP

You can sort the filter lists by clicking on the filter category titles.

The following steps walk through using the Resource Filter to import resources.

STEP BY STEP – IMPORT FILTERED RESOURCES

1. In your Job, go to the Job Properties > Cost Basis tab, select the **Labor Rate** resource type.
2. Under Resource File Description, select **Standard Labor Rate File**.
3. In the Geographic Area, select an **Area**.
4. For Wage Zone (Work Center), select a **Wage Zone**.
5. For Organizational Category, select **All**.

- 6. Follow the same steps for the remaining resource types.
- 7. Select the **Import Filtered Resources** button to bring your selected resources into the job.
 - For this example, we'll select the following filters for the Labor resource type:

Resource / Assembly Filter				
Resource / Assembly Type	Resource / Assembly File ...	Geographic Area	Wage Zone	Organizational Category
<input checked="" type="checkbox"/> Labor Rate	<input type="checkbox"/> [All]	<input type="checkbox"/> [All]	<input type="checkbox"/> [All]	<input checked="" type="checkbox"/> [All]
<input type="checkbox"/> Construction Equipment R...	<input type="checkbox"/> [None]	<input type="checkbox"/> [None]	<input type="checkbox"/> [None]	<input type="checkbox"/> [None]
<input type="checkbox"/> Rented Construction Equi...	<input type="checkbox"/> [Non-Blanks]	<input type="checkbox"/> [Non-Blanks]	<input type="checkbox"/> [Non-Blanks]	<input type="checkbox"/> [Non-Blanks]
<input type="checkbox"/> Installed Material Rate	<input checked="" type="checkbox"/> Standard Labor Rate File	<input checked="" type="checkbox"/> Southwest	<input checked="" type="checkbox"/> Wage Zone A	<input type="checkbox"/> Truck Driver - Teamster
<input type="checkbox"/> Installed Equipment Rate			<input type="checkbox"/> Wage Zone B	<input type="checkbox"/> Supervision
<input type="checkbox"/> Supply Rate				<input type="checkbox"/> Carpenter
<input type="checkbox"/> Individual Data				<input type="checkbox"/> Welder

NOTE You must select “Import Filtered Resources” to import your resources. Clicking **OK** on the Job Properties form will not import your resources.

4.6.6 FUEL COST TAB

On this tab you can enter the cost for fuel (or other energy sources). These unit cost will be multiplied by the consumption rates entered on each equipment record to define the fuel operating cost of each piece of equipment. The Cost per UM fields default to \$0.00.

STEP BY STEP – ENTER FUEL COSTS

- 1. In your job, open the **Job Properties > Fuel Cost** tab.
- 2. In Cost Per UM column, enter a **dollar amount** into the following:
 - Diesel
 - Gas & Gasoline

- Off Road Diesel

Job Properties

Overview

Security

Cover Sheet

Cost Basis

Minority Setup

Fuel Cost

Job

Drag columns here to group

	Fuel Type	Cost Per UM	Curre...	...	Account Code
	Diesel	\$4.20	U.S. Dollar	Gallon	
	Gas	\$3.90	U.S. Dollar	Gallon	
	Gasoline	\$3.90	U.S. Dollar	Gallon	
	Off Road Diesel	\$3.20	U.S. Dollar	Gallon	
→					

3. Currency should read U.S. Dollar and UM should read Gallon.

4.6.7 JOB FOLDER TAGS TAB

On this tab, you can enter tag fields to label your project, so you can reference it later.

Job Properties

Overview

Security

Cover Sheet

Cost Basis

Minority Setup

Fuel Cost

Job Tracking

Job Folder Tags

Pricing

Schedule

Cash Flow

Equipment Maintenance

Benchmarking

Alternates

Job Folder Tag Assignments

Tag 1:

Tag 2:

Tag 3:

Tag 4:

Tag 5:

Tag 6:

Tag 7:

Tag 8:

Tag 9:

Tag 10:

Tag 11:

Tag 12:

Tag 13:

Tag 14:

Tag 15:

Tag 16:

Tag 17:

Tag 18:

Tag 19:

Tag 20:

Tag 21:

Tag 22:

Tag 23:

Tag 24:

Many of these fields are validated fields, meaning you can choose from options in a drop-down list. The names of these tags and the drop-down values are defined at a master level within the Library Foundation Setup Data. Some job folder tags are setup to be date fields or numerical fields. These tags are used to sort and filter the job register as well as for selecting which past estimates to utilize for benchmarking.

4.6.8 SCHEDULE TAB

The Schedule tab is used to define the scheduling options for the integration of Estimate with InEight Schedule, Microsoft Project, or Primavera. The settings you define determine what information is sent to your scheduling application or tool, and how it's structured.

The screenshot shows the 'Cost Breakdown Structure (CBS) Register' window with the 'Job Properties' tab selected. The 'Schedule' sub-tab is active and highlighted with a red box. The form contains the following elements:

- Integrated Schedule:** A dropdown menu set to 'InEight Schedule'.
- Schedule Currency:** A dropdown menu set to 'U.S. Dollar'.
- Always use Plug Days when updating Estimate from the schedule:** An unchecked checkbox.
- Cost Item Roll Up:** A section with a checkbox 'Automatically calculate Plug Days when rolling up cost items for scheduling purposes' which is checked. Below it are two radio buttons: 'Longest scheduled days among all rolled up cost items' (selected) and 'Total scheduled days for all rolled up cost items' (unselected).
- Note:** A text block explaining that when rolling up cost items, the Plug Days of the superior cost item will be recalculated when a change is made to the scheduled days of a subordinate.
- To force immediate recalculation of Plug Days for superior cost items, use the 'Recalculate Plug Days' button or the 'Calculate Plug Days...' command on the 'Tools' menu in the CBS Register.**
- Recalculate Plug Days:** A button located below the note.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom right of the window.

- **Integrated Schedule** – Select your integrated schedule from InEight Schedule, Microsoft Project, Primavera, or Manual.
- **Schedule Currency** – When you use Microsoft Project or Primavera, you can select the currency type used for the integration. The InEight Schedule and Manual option is set to U.S. Dollar by default.
- **Plug Days** - You can select **Always use Plug Days** when updating Estimate from schedule.
- **Cost Item Roll Up** – You can select to automatically calculate plug days when rolling up cost items for scheduling purposes.

4.6.9 OTHER JOB PROPERTIES TABS

There are several additional tabs on the Job Properties form. The other tabs will not be discussed here because they are either used for project controls, or they will be covered at another time.

Other Job Properties Tabs	
Name	Function
Minority Setup	Used to set up minority participation goals (for example, DBE or MBE) and you want to track minority participation goal attainment status during the bid process,
Job Tracking	Used to select the code that will be used when tracking job progress, define the planned production calculation, define the percent complete calculation, define the forecast methods, and define markup rates for calculating earned revenue on Time and Expense pay items.
Pricing	Used to define how you want the Balanced Unit Price for each of the job's pay items to be calculated when using the AutoPrice feature. You can also choose from several options in determining how markup is defined.
Cash Flow	Defines the cash flow rules (payment terms) that are used in the calculation of Job Financing and cost/revenue realization to generate the curves that display on the Cash Flow form.
Equipment Maintenance	Used to define the calculation of maintenance labor man-hours based on equipment utilization, to capture the impact on total man-hours when changes are made that affect the job's total value.
Benchmarking	Used to establish the historical data to be used for benchmarking the current job, and to define the default benchmark graph display and calculations.
Alternates	Used to define Alternate Scenarios, to assess the impact of those scenarios.

RELEVANT LINKS

[Video - Job properties](#)

[Video - Associate Estimate with a Platform project](#)

EXERCISE 4.1 – DEFINE JOB PROPERTIES

In this exercise, you will continue to define your Job Properties from the job you have created in two parts. Complete the following steps:

1. On the Cover Sheet tab, fill out the following fields:

Job Location	90th Street & Shea
City	Scottsdale
County	Maricopa
Country	United States
State	Arizona
Type	Infrastructure
Engineer	Fred Jones
Owner	Jerry Slate
Architect	Robert Frost
Contract Duration	80
Time Measure	Calendar Days
Forecast Start	October 15, 2019
Duration (days)	70
Bid Date and Bid Time	10/1/2019 2:00 PM
Estimator	Jim Sly
Bid Location	123 Main Street
Owner's Estimate	\$500,000.00
Opening Type	Public
Proposal Type	Unit Price
Plan Holders	10
Liquidated Damages	\$1000.00 Per Day
RFQ Contact	Jim Sly

In this part 2 of this exercise, you will continue to define your Job Properties from the Job you have created. Complete the following steps:

2. On the Cost Basis tab:

- Ensure the **Shift Arrangement** is 8 hours a day, 5 days a week
- Ensure the **Wage Composite** is set to 100% Scale 1
- Ensure the **Sales Tax** is set to 8%

You should end up with similar results

The following Cover Sheet properties are defined:

Job Properties [X]

Overview | Security | **Cover Sheet** | Cost Basis | Minority Setup | Fuel Cost | Job Tracking | Job Folder Tags | Competitors | Pricing | Schedule | Cash Flow | Equipment Maintenance | Benchmarking | Alternates

Identification

Location: Type: Contract Duration:

City: Engineer: Time Measure:

County: Owner: Forecast Start:

Country: Architect: Forecast Finish:

State: Duration:

Latitude: Longitude:

Proposal

Bid Date: Opening Type:

Bid Time: Proposal Type:

Estimator: Plan Holders:

Bid Location: Liquidated Damages:

Owners Estimate: Liq. Damages Per:

RFQ Contact:

OK Cancel

The following Cost Basis settings are defined:

Job Properties

Overview

Security

Cover Sheet

Cost Basis

Minority Setup

Fuel Cost

Job Tracking

Job Folder Tags

Competitors

Pricing

Schedule

Cash Flow

Equipment Maintenance

Benchmarking

Alternates

Standard Shift Arrangements

Work Hours per Shift: 8.00

Pay Hours per Shift: 8.00

Shifts per Day: 1.00

Days per Week: 5.00

Standard Wage Rate Composite

Scale 1: 100.00 %

Scale 2: 0.00 %

Scale 3: 0.00 %

Shift / Rate Calculator

Rules

☒ Lock Cost Items to Pay Items

Pay Item Unit Price Precision: 2

☐ Activate PBS Changes Log

☐ Activate Quantity Checking

☐ Maintain CBS Structure at Level: 1

When man-count changes:

☐ Change UM / Man-Hour

☒ Change Days

☐ Preserve Original Cost Item Data Source

Currency

Default Currency: U.S. Dollar

Standard Rates

Sales Tax Rate: 8.00 %

Resource / Assembly Filter

Resource / Assembly Type

Labor Rate

Construction Equipment R...

Rented Construction Equi...

Installed Material Rate

Installed Equipment Rate

Supply Rate

Unique Rate

Resource Assembly

Cost Item Assembly

Standard Table

Resource / Assembly File ...

☐ [All]

☐ [None]

☐ [Non-Blanks]

☒ Standard Labor Rate File

Geographic Area

☐ [All]

☐ [None]

☐ [Non-Blanks]

☒ Southwest

Wage Zone

☐ [All]

☐ [None]

☐ [Non-Blanks]

☒ Wage Zone A

☐ Wage Zone B

Organizational Category

☒ [All]

☐ [None]

☐ [Non-Blanks]

☐ Truck Driver - Teamster

☐ Supervision

☐ Carpenter

☐ Welder

☐ Mechanic

☐ Operator

☐ Remediation

Import Filtered Resources

OK

Cancel

Congratulations, you have completed this exercise!

4.7 PAY ITEM CREATION

Pay items typically represent the owner required deliverables a contractor must submit pricing for. Within InEight Estimate, pay items are used to distribute the cost calculated in the Cost Breakdown Structure and all markup, fees or contingency calculated in the Price Breakdown Structure to a list of defined items. This allows the total estimate value to be distributed to a structure that is different then the CBS. Pay Items are predominantly used by Contractors to prepare a bid sheet. Owners may use pay items to identify funding sources or for various reporting needs.

Many Bid Forms are organized by grouping bid items for related scopes of work. Pay items within the Pay Item and Proposal screen can be grouped in a hierarchy by utilizing the Position Code column.

You can create pay items in the Pay Item & Proposal Register. Access this form by selecting the **Setup** tab > **Pay Item & Proposal**.



Name		Description
1	Proposal and Item Recaps	Related to pricing during bid close-out. You can disregard them at this time.
2	Pay Item Number	Represents the bid item number from the client (if they give you one) or can be a number you specify. This field is alpha-numeric
3	Position Code	Controls the way pay items can be grouped, and provide you with an efficient way to sort.
4	Description	You can enter a pay item description.
5	Pay Quantity and Forecast (T/O) Quantity	The Pay Quantity is the quantity provided by the client. The Forecast (T/O) Quantity is your measured quantity for the item.

4.7.2 PAY ITEM PRICES BY CATEGORY

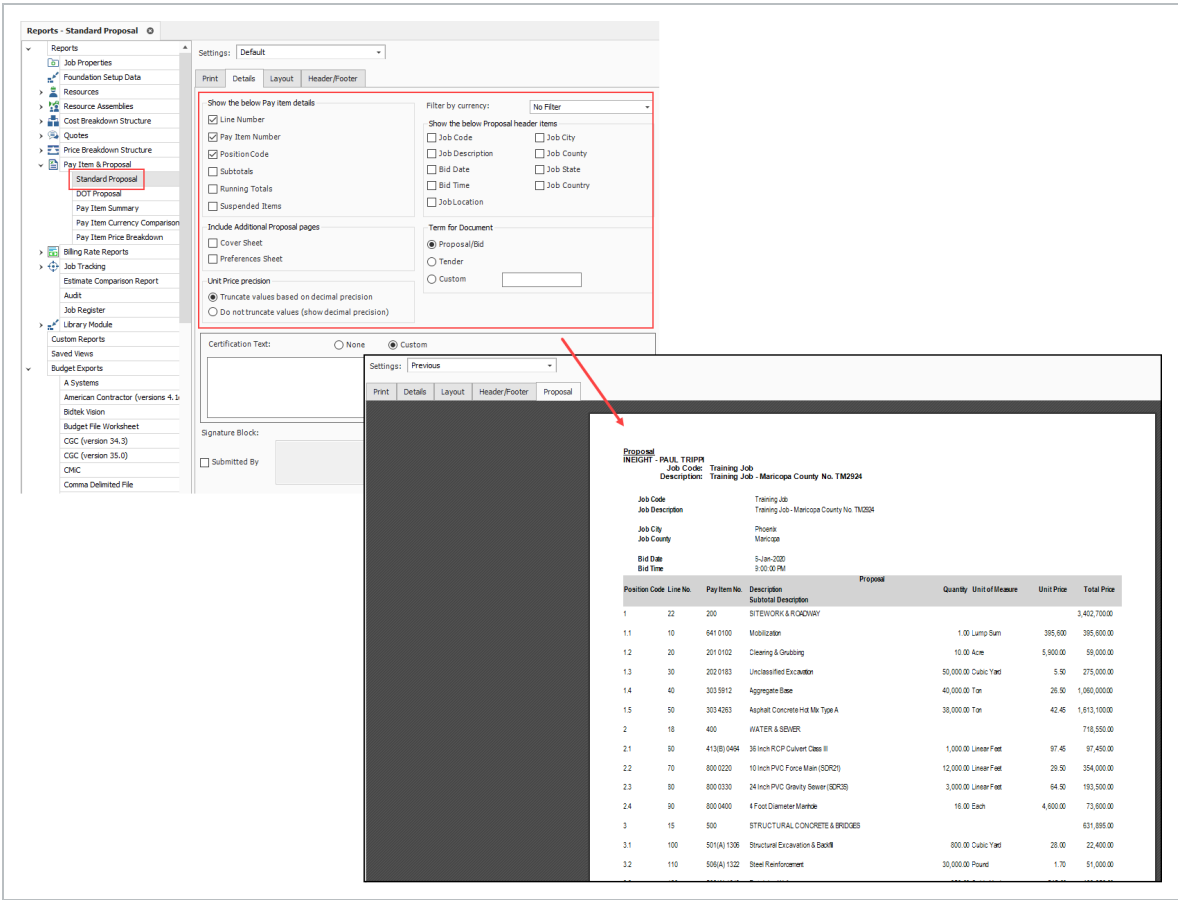
Owners are increasingly requiring more information from contractors as part of their bid submissions. Many times, this is a further breakdown of a bid price such as separating the price of an item based on its labor cost, material cost or man-hours. Select columns in the Pay Item & Proposal register enable users to summarize their pay item prices by up to 10 price categories.

In addition to seeing the price by category, these additional columns also give users better visibility into how the price is established, including columns for the total cost, total distribution, total markup and markup percent. These new columns make it easier to verify that the distribution of unassigned cost and markup are calculated as intended by the estimator.

Pay Item Number	Position Code	Lock Quantity	Lock Price	Description	Pay Quantity	Forecast (T/O) Quantity	Unit of Measure	Currency	LABOR Cost	LABOR Cost Distribution	LABOR Markup	LABOR Price (balanced)	LABOR Price (current)	LABOR Markup %	Unit Price (current)
200	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SITEWORK & ROADWAY				U.S. Dollar	\$291,828.52	\$51,472.21	\$7,224.74	\$350,525.47	\$394,902.06	2.48	
+ 641 0100	1.1	<input type="checkbox"/>	<input type="checkbox"/>	Mobilization	1.00	1.00	Lump Sum	U.S. Dollar	\$2,449.51	\$386.80	\$60.85	\$2,897.16	\$81,365.80	2.48	\$395,600.00
+ 201 0102	1.2	<input type="checkbox"/>	<input type="checkbox"/>	Clearing & Grubbing	10.00	10.00	Acre	U.S. Dollar	\$14,880.57	\$7,301.27	\$344.82	\$22,526.66	\$22,405.37	2.32	\$5,900.00
+ 202 0183	1.3	<input type="checkbox"/>	<input type="checkbox"/>	Unclassified Excavation	50,000.00	50,000.00	Cubic Yard	U.S. Dollar	\$62,230.08	\$9,800.01	\$1,545.91	\$73,576.00	\$73,159.96	2.48	\$5.50
+ 303 5912	1.4	<input type="checkbox"/>	<input type="checkbox"/>	Aggregate Base	40,000.00	45,000.00	Ton	U.S. Dollar	\$99,794.93	\$15,809.26	\$2,479.10	\$118,083.29	\$171,742.65	2.48	\$26.50
+ 303 4263	1.5	<input type="checkbox"/>	<input type="checkbox"/>	Asphalt Concrete Hot Mix Type A	38,000.00	35,000.00	Ton	U.S. Dollar	\$112,473.43	\$18,174.87	\$2,794.06	\$133,442.35	\$112,437.69	2.48	\$42.45
400	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WATER & SEWER				U.S. Dollar	\$128,895.90	\$20,324.84	\$3,202.02	\$152,422.76	\$167,735.34	2.48	
+ 413(B) 0464	2.1	<input type="checkbox"/>	<input type="checkbox"/>	36 Inch RCP Culvert Class III	1,000.00	1,024.00	Linear Feet	U.S. Dollar	\$19,602.99	\$3,084.69	\$486.98	\$23,174.66	\$28,284.74	2.48	\$97.45

4.7.3 STANDARD PROPOSAL REPORT

The Pay Item Standard Proposal report is located in Execution > Reports > Pay Item & Proposal > **Standard Proposal**, and is intended to be used as a bid form, and distributed to other clients, partners, and contractors. In the Details box below, you can determine which key fields you want included and shown on your standard proposal report.



RELEVANT LINKS

Video - Create pay items

Video - Job markup (profit)

EXERCISE 4.2 – CREATE PAY ITEMS

In this exercise, you will practice creating pay items in the Pay Item & Proposal Register. Complete the following steps, using a job of your own.

Position Code	Pay Item Number	Description	Pay Quantity	Unit of Measure
1	200	SITEWORK & ROADWAY		
1.1	641 0100	Mobilization	1	LS
1.2	201 0102	Clearing & Grubbing	10	Acre
1.3	202 0183	Excavation	50,000	CY
2	400	WATER & SEWER		
2.1	800 0220	10 PVC Pipe	1,000	LF

You should end up with the following results:

Position Code	Pay Item Number	Description	Pay Quantity	Forecast (T/O) Quantity	Unit of Measure
1	200	SITEWORK & ROADWAY			
+ 1.1	641 0100	Mobilization	1.00	1.00	LS
+ 1.2	201 0102	Clearing & Grubbing	10.00	10.00	Acre
+ 1.3	202 0183	Excavation	50,000.00	50,000.00	CY
2	400	WATER & SEWER			
+ 2.1	800 0220	10 PVC Pipe	1,000.00	1,000.00	LF

Congratulations, you have completed this exercise!

LESSON 4 REVIEW

1. This is where you enter basic information about the job as well as define your cost basis.
 - a. Pay Item & Proposal
 - b. Job Properties
 - c. Library
 - d. Job Folder

2. On the Job Properties form, this tab is where you enter information such as the start date, bid date, job type and location.
 - a. Overview
 - b. Cover Sheet
 - c. Cost Basis
 - d. Foundation Setup Data

3. These are the project deliverables; anything the owner agrees to measure and pay for.
 - a. Cost Items
 - b. Resources
 - c. Target Price
 - d. Pay Items

LESSON 4 SUMMARY

As a result of this lesson, you can:

- Create a new job
- Enter Job Properties
- Create pay items in the Pay Item & Proposal Register

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LESSON 5 – DIRECT COSTS

LESSON DURATION: 30 MINUTES

LESSON OBJECTIVES

After completing this lesson, you will be able to:

- Explain the Cost Breakdown Structure and its purpose
- Create cost items
- Add costs and production
- Manage cost item details

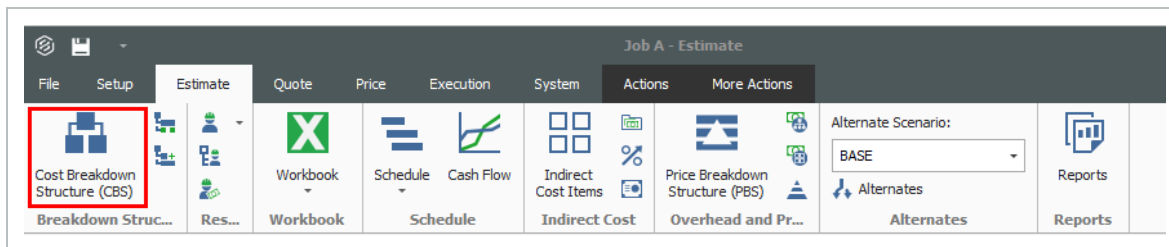
LESSON TOPICS

5.1 COST BREAKDOWN STRUCTURES

The Cost Breakdown Structure (CBS) is the main form where you will do your cost estimating.

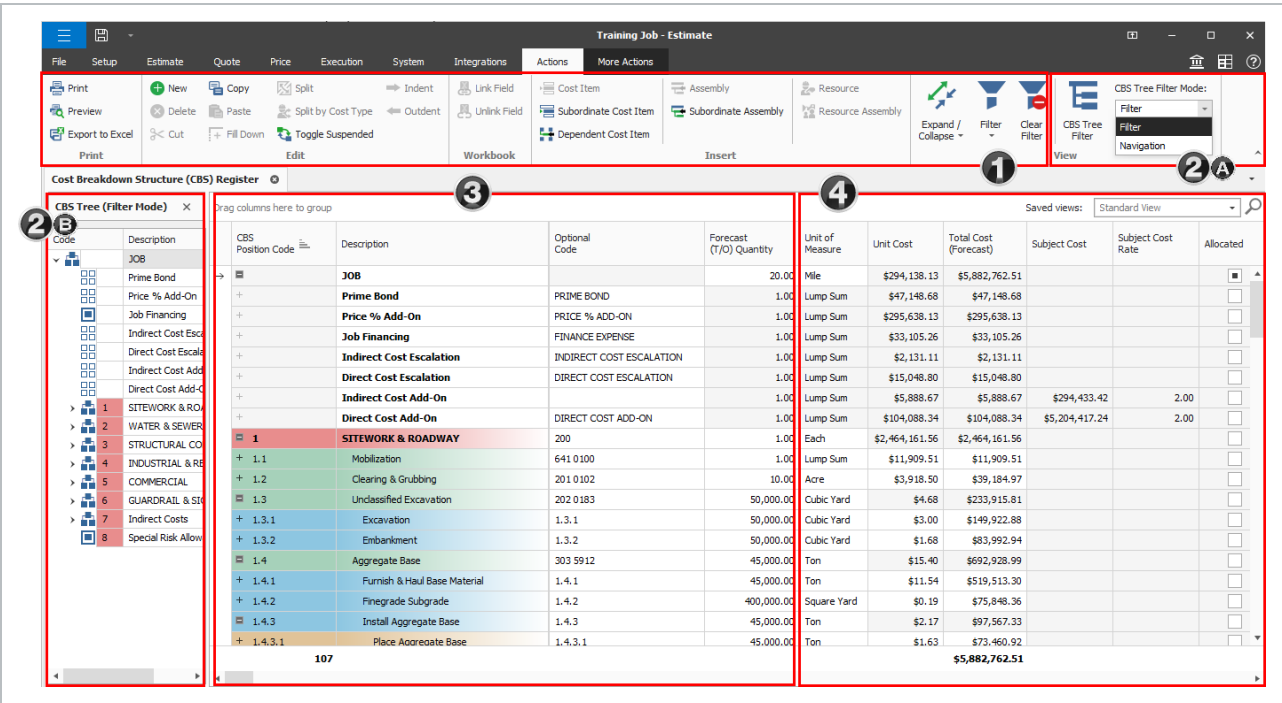
- It is the hierarchy of work activities that make up the estimate
- Each row in the CBS represents a work activity or organizing category and is called a cost item

To access the Cost Breakdown Structure, from the InEight Estimate landing page select the **Estimate** tab, then under the Breakdown Structure section select **Cost Breakdown Structure (CBS)**.



Overview - Cost Breakdown Structure (CBS) Register

Name		Description
1	Actions Menu	Shortcut icons allow you to edit cost items and import items from other sources such as Excel.
2A	CBS Tree Filter Mode (drop-down)	The CBS Tree filter shows the CBS hierarchy and is used to quickly help filter cost items, instead of scrolling the CBS to locate certain cost items. The CBS Tree Filter lets you choose between a filter mode or a new navigation mode.
2B	CBS Tree Filter or Navigation Mode	Both Filter and Navigation modes on the left side of the page provides you with the visibility of your entire CBS structure, as well as giving you the option to navigate and filter throughout the CBS estimate. The Cost Item record can also be tiled next to the tree to make navigating and filtering possible, while viewing all the cost item record details at the same time.
3	Left CBS register	This side of the register contains all of the estimate activities (cost items) that you create or import, organized into a parent-child hierarchy.
4	Right CBS register	This side of the register contains numerous columns for cost detail, production values, and user-defined tags and fields.



5.1.1 COST ITEM TERMINOLOGY

The CBS contains both direct and indirect costs.

- **Direct Cost Items** contain costs that pertain directly to the deliverables of the project. Therefore, direct cost items are typically assigned to pay items
- **Indirect Cost Items** contain overhead costs that are not directly associated with particular deliverable items but contribute to the total cost of the project (e.g., supervision, site office, safety supplies, bid securities). Occasionally an indirect cost item may be assigned to a pay item (e.g., Mobilization costs that are indirect but assigned to a Mobilization pay item).

InEight Estimate uses various terms to describe the parent-child relationships of the multiple levels in the CBS:

Terms	Description
Superior	A Superior cost item has subordinate (child) items below it that determine hours and costs.
Subordinate	A Subordinate cost item is a child to a Superior cost item.
Terminal	A Terminal cost item has no subordinate items. Resources, costs, and production can only be added at the terminal cost item level.

NOTE A Terminal cost item may or may not be a subordinate.

The levels of the CBS are referred to as Level 1, Level 2, etc., as you drill down in the structure. As costs are defined on the terminal items, the sum of the terminal cost items roll up to the superior cost items.

TIP A superior cost item can have no costs of its own; its costs are strictly the rolled-up total from the subordinate cost items below it.

You can use superior cost items as buckets for organizing your work.

As hours and costs are defined on the terminal items, the sum of the terminal cost items roll up to the superior cost items.

5.1.2 WORK BREAKDOWN STRUCTURES

The Work Breakdown Structure (WBS) allows you to reorganize the estimate using different formats such as Construction Specifications Institute (CSI) MasterFormat or UniFormat. WBS formats are used when you need multiple variations and summary reports of an estimate. The WBS retains the same relationships between items as in the original estimate while only changing the view and items arrangement in the WBS hierarchy.

To view the Work Breakdown Structure View Register, in the Ribbon select the tab **Estimate > Work Breakdown Structures**.

Overview - Work Breakdown Structure (WBS) View Register

Name		Description
1	WBS Tree	Use the WBS Tree to filter to a particular WBS item.
2	WBS Grid	When a specific WBS item is selected in the WBS Tree, all subordinate WBS items display in the WBS grid.
3	Cost Items	The Cost Items associated with the WBS subordinate in the WBS Grid displays in this data block.

Cost Breakdown Structure (CBS) Register

Quote Register

Quote Comparison & Award - Resources

Work Breakdown Structure View Register

WBS Tree

WBS: CEAS

CEAS

Civil Engineering Account Code System

10 GENERAL PROVISIONS

11 EARTH WORK

12 PAVEMENT WORK

13 BRIDGE WORK

14 CONCRETE STRUCTURES

17 PIPE WORK

Drag columns here to group

Code	Description	Quantity	Unit of Measure	Currency	Unit Cost	Total Cost (Forecast)
CEAS	Civil Engineering Account Code System	1.00	Each	U.S. Dollar	\$2,494,088.07	\$2,494,088.07
10	GENERAL PROVISIONS	1.00	Lump Sum	U.S. Dollar	\$35,054.51	\$35,054.51
10.10	PROJECT SETUP	1.00	Each	U.S. Dollar	\$14,000.00	\$14,000.00
10.10.100	YARD	1.00	Each	U.S. Dollar	\$4,000.00	\$4,000.00
10.10.200	OFFICE FACILITIES	1.00	Each	U.S. Dollar	\$2,000.00	\$2,000.00
10.10.500	UTILITIES	1.00	Each	U.S. Dollar	\$8,000.00	\$8,000.00
10.20	EQUIPMENT SETUP	1.00	Each	U.S. Dollar	\$14,624.39	\$14,624.39
10.20.100	MOBILIZATION	1.00	Load	U.S. Dollar	\$11,909.51	\$11,909.51
37						\$2,494,088.07

Cost Items

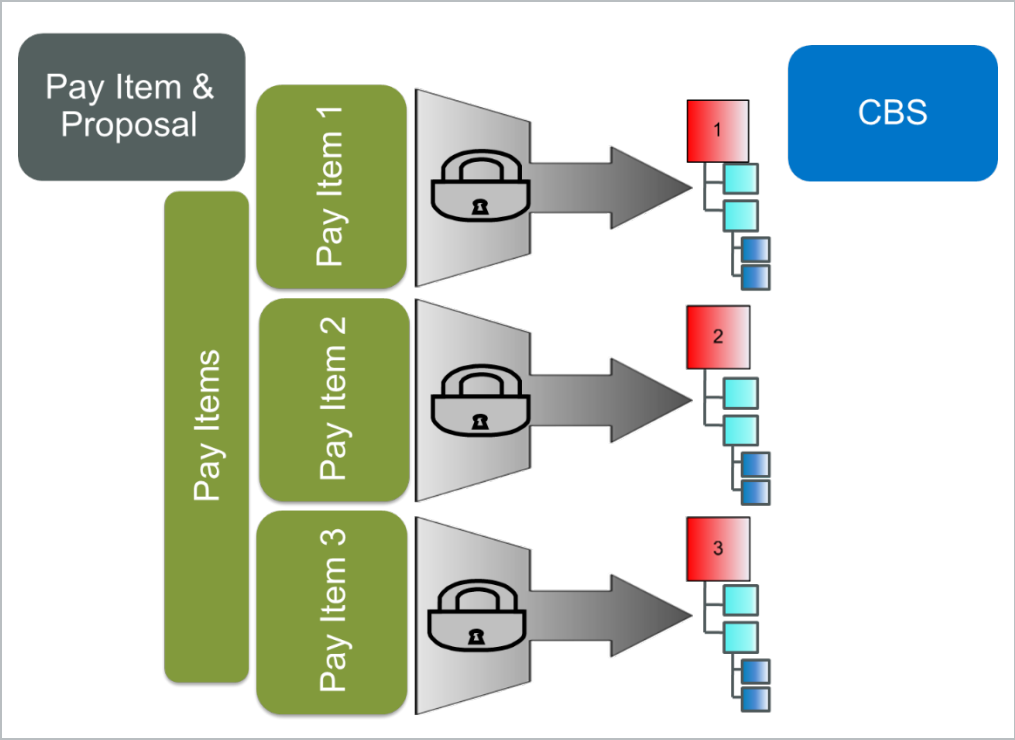
Drag columns here to group

CBS Position Code	Description	Optional Code	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Allocated	Allocation Source	Currency	Cost Adjustment	Resource Assembly Quantity
23.1	Setup Yard	UNASSIGNED	1.00	Lump Sum	\$4,000.00	\$4,000.00			U.S. Dollar		0.

5.1.3 LOCKED VS. UNLOCKED APPROACH

There are two basic approaches to structuring your cost items and pay items. You can choose to work in a “locked approach” or an “unlocked approach.”

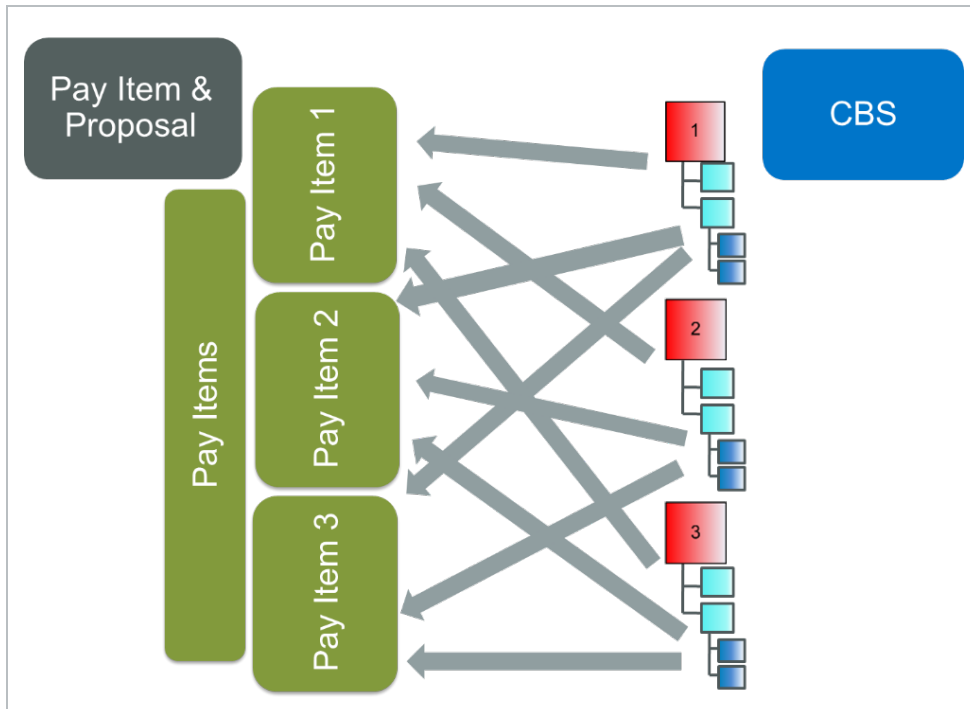
In a locked approach, level one cost items are automatically created and assigned to pay items. This locked approach works well when pay items adequately represent the work plan. Subordinate cost items inherit the pay item assignment of superior cost items.



NOTE

If the Lock Cost Items to Pay Item rule is checked in Job Properties, InEight Estimate will automatically create level 1 cost items in the CBS Register for each of your pay items.

The unlocked approach may work better when the pay items do not adequately represent the work plan. You can then assign your cost items to your pay items in any arrangement. Companies looking to standardize the way they estimate and use templates will want to use this approach as it allows you to dictate the cost breakdown structure. Owners will also typically use the unlocked approach since pay items are not necessary to their estimating process.



The option of working in a locked approach vs. an unlocked approach is available in the Job Properties Form, on the Cost Basis tab under the Rules section. By selecting the checkbox for Lock Cost items to Pay Item, you are choosing to work in a locked approach.

Job Properties

Overview Security Cover Sheet **Cost Basis** Minority Setup Fuel Cost Job Tracking Job Folder Tags Competitors Pricing S

Standard Shift Arrangements

Work Hours per Shift: 8.00

Pay Hours per Shift: 8.00

Shifts per Day: 1.00

Days per Week: 5.00

Standard Wage Rate Composite

Scale 1: 100.00 %

Scale 2: 0.00 %

Scale 3: 0.00 %

Shift / Rate Calculator

Rules

☒ Lock Cost Items to Pay Items

Pay Item Unit Price Precision: 2

☐ Activate PBS Changes Log

☐ Activate Quantity Checking

☐ Maintain CBS Structure at Level: 0

When man-count changes: ☒ Change UM / Man-Hour ☐ Change Days

5.1.4 TAKE-OFF QUANTITIES

In the Cost Breakdown Structure, estimated quantities are entered into the Forecast (T/O) Quantity field with a corresponding unit of measure. The quantity will default to 1 each when you create a new cost item and should be updated to reflect the work being estimated.

CBS Position Code	Description	Forecast (T/O) Quantity
+ 1	Mobilization	1.00
+ 2	Clearing & Grubbing	10.00
+ 3	Unclassified Excavation	50,000.00
+ 3.1	Excavation	50,000.00
+ 3.2	Embankment	50,000.00
+ 4	Aggregate Base	45,000.00
+ 4.1	Furnish & Haul Base Material	45,000.00
+ 4.2	Finegrade Subgrade	400,000.00
+ 4.3	Install Aggregate Base	45,000.00
+ 4.3.1	Place Aggregate Base	45,000.00
+ 4.3.2	Blue Top Aggregate Base	400,000.00

NOTE

Forecast (T/O) Quantities are only used for your cost items in the CBS Register. Pay Quantities are used for final pricing in the PBS and Pay Item & Proposal forms.

Because the training project is a “locked” job, you already have level 1 cost items, and their default take-off quantities are populated from their corresponding pay item quantities.

The following step by step walks you through adjusting the default take-off quantities on a couple of your cost items.

STEP BY STEP – ADJUST TAKE-OFF QUANTITIES

1. From the Estimate tab, select **Cost Breakdown Structure (CBS)**.
2. In the Forecast (T/O) Quantity column, the Forecast (T/O) Quantity is brought over from the Pay Item & Proposal Register, but here you can adjust it if needed. Practice adjusting the Forecast T/O quantity of one of your cost items.
 - For this example, we’ll change Clearing and Grubbing to **15.00 Acre** and Excavation to **40,000 CY**.

1	SITEWORK & ROADWAY	1.00	Each
+ 1.1	Mobilization	1.00	LS
+ 1.2	Clearing & Grubbing	15.00	Acre
+ 1.3	Excavation	40,000.00	CY
2	WATER & SEWER	1.00	Each
+ 2.1	10 PVC Pipe	1,000.00	LF

5.2 COST ITEM CREATION

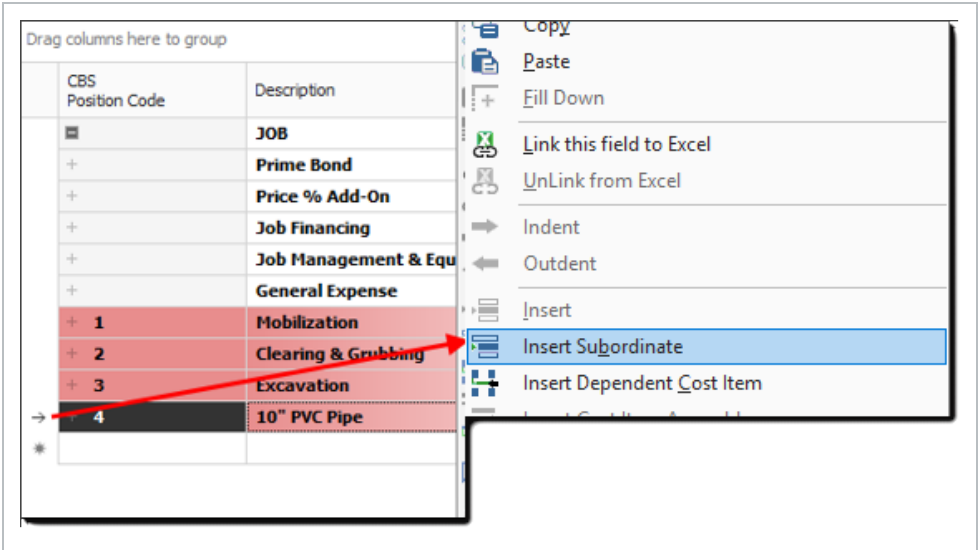
During estimate development, you will create new cost items to break down your work into specific activities. You can create superior and subordinate cost items as needed to organize your work.

5.2.1 INSERT SUBORDINATE COST ITEM

You can add subordinate cost items in two different ways:

OPTION 1

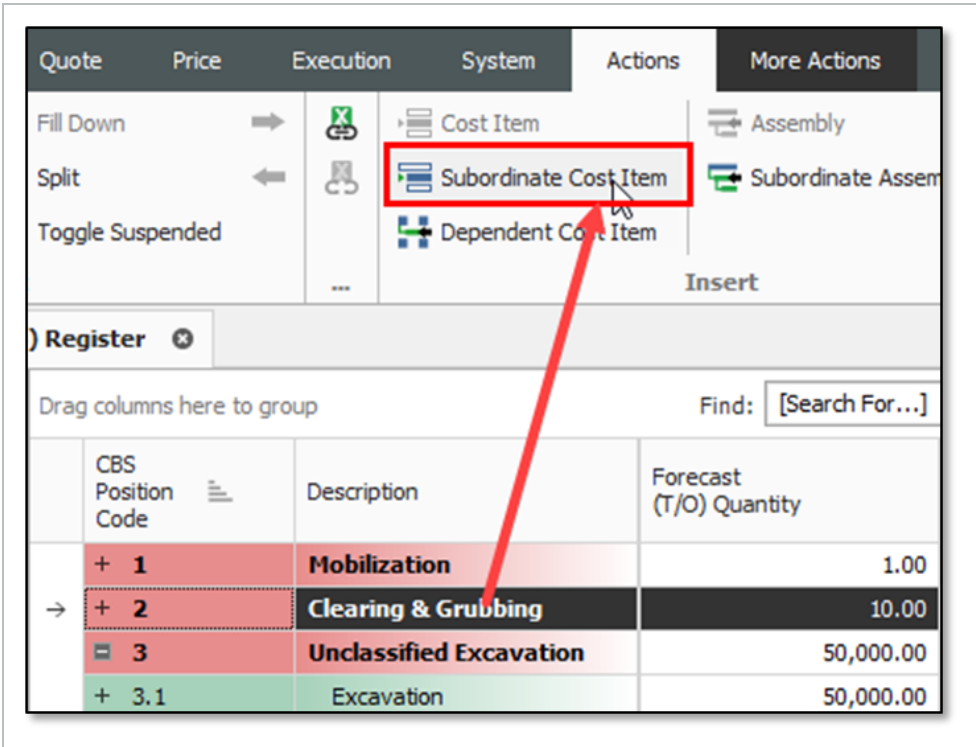
Right-click on the row header of the superior cost item and select **Insert Subordinate**.



The row header is considered the far left edge of the CBS row where the small arrow appear appears above. It is used to open records and perform actions on items instead of clicking on cells within the row which will allow you to directly type into the selected cell.

OPTION 2

Click on the **Subordinate Cost Item** icon on the Cost Breakdown Structure (CBS) Register toolbar.



5.2.2 INSERT COST ITEM

You can add cost items at the same level in two different ways.

OPTION 1

Right click on the row header of the superior cost item and select **Insert**.

CBS Position Code	Description
+ 1	Mobilization
+ 2	Clearing & Grubbing
- 3	Unclassified Excavation
+ 3.1	Excavation
+ 3.2	Embankment
- 4	Aggregate Base
+ 4.1	Furnish & Haul Base Material
+ 4.2	Finegrade Subgrade
- 4.3	Install Aggregate Base
+ 4.3.1	Place Aggregate Base
+ 4.3.2	Blue Top Aggregate Base
- 5	Asphalt Concrete Hot Mix Type A
+ 5.1	Furnish & Haul Hot Mix
+ 5.2	Install Hot Mix Type A

Copy

Paste

Fill Down

Link this field to Excel

UnLink from Excel

Indent

Outdent

Insert

Insert Subordinate

Insert Dependent Cost Item

Insert Cost Item Assembly

Insert Cost Item Assembly as Subordinate

Split

Insert Resource

OPTION 2

Click on the **Cost Item** icon on the Cost Breakdown Structure (CBS) Register toolbar.

Quote

Price

Execution

System

Actions

More Actions

Fill Down

Split

Toggle Suspended

Cost Item

Subordinate Cost Item

Dependent Cost Item

Assembly

Subordinate Assembly

Register

Drag columns here to group

Find: [Search For...]

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure
+ 1	Mobilization	1.00	Lump Sum
+ 2	Clearing & Grubbing	10.00	Acre
- 3	Unclassified Excavation	50,000.00	Cubic Yard
+ 3.1	Excavation	50,000.00	Cubic Yard
+ 3.2	Embankment	50,000.00	Cubic Yard

Because the project you are working in is a “locked” job (where cost items are locked to pay items), your CBS Register will already have level 1 cost items representing each of your pay items, and each cost item will be assigned to its corresponding pay item.

The following step by step walks you through creating a subordinate (child) cost item for one of your level-one cost items.

STEP BY STEP – CREATE A SUBORDINATE COST ITEM

1. From the Estimate tab, select **Cost Breakdown Structure (CBS)**.
2. Right-click on a cost item and select **Insert Subordinate**.
 - This creates a new subordinate cost item below your selected cost item
3. For the subordinate cost item, enter a description.
4. Add a quantity and select your Unit of Measure.
 - For this example, we’ll insert a subordinate under Clearing & Grubbing for Clearing

1	SITEWORK & ROADWAY	1.00	Each
+ 1.1	Mobilization	1.00	LS
+ 1.2	Clearing & Grubbing	15.00	Acre
+ 1.2.1	Clearing	15.00	Acre
+ 1.3	Excavation	40,000.00	CY
2	WATER & SEWER	1.00	Each
+ 2.1	10 PVC Pipe	1,000.00	LF

TIP

You can create a subordinate at the same level, by right clicking on an equal-level cost item and selecting **Insert**.

5.2.3 MOVE COST ITEMS

As you develop your estimate, you may need to move cost items around in the Cost Breakdown Structure. To move a cost item:

1. Select the row header of the cost item you wish to move. If you select a superior cost item, it will bring the subordinates along with it.
2. Drag and drop the cost item to the right place in your structure. Notice one of two cursor symbols appears:

The symbol with three equal bars will drop the cost item at the same level as the cost item you drop it on.



The symbol with a subordinate bar will make the cost item become a subordinate to the one you drop it on.



EXERCISE 5.1 – CREATE COST ITEMS

In this exercise, you will practice creating additional cost items. Create the following cost items, using your own job.

Code	Description	Forecast (T/O) Quantity	Unit of Measure
1.2.2	Grading	10	Acre
1.3.1	Excavate	40,000	CY
1.3.2	Haul	40,000	CY
4.1	Furnish Pipe Materials	1,000	LF
4.2	Excavate-Install-Backfill Pipe	1,000	LF

You should end up with similar results:

1	SITEWORK & ROADWAY	1.00	Each
+ 1.1	Mobilization	1.00	LS
+ 1.2	Clearing & Grubbing	15.00	Acre
+ 1.2.1	Clearing	15.00	Acre
+ 1.2.2	Grading	10.00	Acre
+ 1.3	Excavation	40,000.00	CY
+ 1.3.1	Excavate	40,000.00	CY
+ 1.3.2	Haul	40,000.00	CY
2	WATER & SEWER	1.00	Each
+ 2.1	10 PVC Pipe	1,000.00	LF
+ 2.1.1	Furnish Pipe Materials	1,000.00	LF
+ 2.1.2	Excavate-Install-Backfill Pipe	1,000.00	LF

Congratulations, you have completed this Exercise!

5.3 COSTS AND PRODUCTION

For the cost items you've created, you can now add their costs and production. All information for a cost item is contained in a Cost Item Record.

5.3.1 COST ITEM RECORD

You can open the Cost Item Record by either double clicking on a cost item row header, or right clicking and selecting **Open**.

Cost Item Record Overview

Name		Description
1	Cost Item Header Information	<p>Provides general information about the cost item. It displays the cost item's take-off quantity, Unit of Measure, and Cost. It also indicates what Cost Source is being used.</p> <p>The Cost Segment drop-down is used to differentiate estimated costs in the Direct Costs, Job Overhead or Business overhead categories.</p>
2	Costing Area	<p>Section where costs are defined. There are three ways to enter costs: Detail, Plug, and Quote. The Cost Summary tab summarizes whatever costs are defined.</p> <p>Under the Cost Segment drop down, you can choose</p>
3	Data Blocks	<p>Contains a set of tabs for entering additional information including production, shift arrangements, man-hour factors, notes, and scheduling information.</p>

Cost Item Record

CBS Code:Optional Code:Description:Forecast (T/O) Qty:Unit of Measure:Unit Cost:Total Cost:Currency:

3202 0183Unclassified Excavation50,000.00Cubic Yard\$4.68\$233,915.81U.S. Dollar

3.13.1Excavation50,000.00Cubic Yard\$3.00\$149,922.88U.S. Dollar

PI Assignment:PI Line Number:PI Description:Cost Segment:Pay Quantity:Cost Source:Alternate:

202 018330Unclassified ExcavationDirect Cost50,000.00DetailBASE

Cost Item SummaryDetail : \$3.00Plug : \$0.00Quote : \$0.00Allocation

Cost Category	Unit Cost	Total Cost	Unadjusted Total Cost	Cost Adjustment Percent	Cost Adjustment Amount	Billing Unit Rate	Total Billing Amount
Total	\$3.00	\$149,922.88	\$149,922.88	0.00	\$0.00	\$3.28	\$163,881.06
Labor	\$0.66	\$33,170.48	\$33,170.48	0.00	\$0.00	\$0.93	\$46,438.66
Owned Equipment	\$2.34	\$116,752.40	\$116,752.40	0.00	\$0.00	\$2.35	\$117,442.40
Rented Equipment	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	\$0.00
Supplies	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	\$0.00
Materials	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	\$0.00
Subcontract	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	\$0.00
Fees	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	\$0.00
Allowance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	\$0.00
Custom Category1	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	\$0.00
Undefined	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	\$0.00

Employment Setup

Identification

Code: ETWTType: Construction Equipment Rate

Description: Water Truck

Quantity (Less Waste):Waste %Add-on:

Quantity:1.00Productivity Factor:1.

Cost Driver:Schedule...

Employment Cost

Unit Cost:\$29.60Total Cost:\$1,302.40

Maintenance Labor Cost

Unit Cost:\$0.00Total Cost:\$0.00

5.3.2 COST SEGMENTS

The Direct Costs, Job Overhead, and Business Overhead cost segments helps to classify the scope of work so you can report on direct vs indirect costs, and accurately control how markup is spread throughout your bid. This differentiation is necessary to effectively price work based on the risk profile of each segment of cost.

Cost Item Record

CBS Code:Optional Code:Description:Forecast (T/O) Qty:Unit of Measure:Unit Cost:Tot:

2400WATER & SEWER1.00Each\$496,284.83

2.1413(B) 046436 Inch RCP Culvert Class III1,024.00Linear Feet\$67.54

PI Assignment:PI Line Number:PI Description:

413(B) 04646036 Inch RCP Culvert Class III

Cost Item SummaryDetail : \$67.54Plug : \$0.00Quote : \$0.00Allocation

This cost item has subordinate cost items.
Click the Next button to move to a subordinate cost item and enter Details.

Cost Segment:

Direct Cost

Description

Business Overhead

Direct Cost

Job Overhead

InEight Inc. | Release 25.7

Page 243 of 402

5.3.3 COST SOURCES

You can define costs on a cost item in one of three ways, called Cost Sources:

Tab	Description
Detail	This is the recommended costing method, where labor, equipment, and material resources are defined, along with productivity, to determine costs.
Plug	<p>This method allows you to enter a unit or total cost directly, without needing to enter resources or production. This should rarely be used, but does have a couple of use cases:</p> <ul style="list-style-type: none">• Place holder value until you get more information (from subcontractors or designers)• For preliminary estimates when limited information is available
Quote	<p>The Quote cost source is for contractors, subcontractors or vendor quotes.</p> <ul style="list-style-type: none">• Creating and managing quotes is covered in Lesson - Quote Management

Code	Description	Work Hours
ETWT	Water Truck	130.
ED8	Dozer D8	130.
ES623	Scraper 623	261.
ECOMP1	Compactor Smooth Drum	130.
ECOMP2	Compactor Sheeps Foot	130.
LL2	Laborer	130.

Cost Category	Unit Cost	Total Cost
Total	\$1,090.00	\$1,090.00
Labor	\$500.00	\$500.00
Owned Equipment	\$590.00	\$590.00
Rented Equipment	\$0.00	\$0.00

Company:	Acme Guardrail
Contact:	Johnson, Joe
Phone:	555-555-5555
Unit Price:	\$31.00
Bond:	\$0.00
Conditions:	\$0.00
Taxes:	\$0.00
Total:	\$31.00

Detail

Crews,
Resources, &
Productivity

Plug

Directly
Entered Cost

Quote

Subcontracts

On each Cost Item Record, InEight Estimate gives you the option to define both Plug and Detail values on each respective tab.

5.3.3.1 PLUG TAB

The Plug tab allows user to input unit or total cost to any of the listed cost categories which can be customized based on company requirements.

Cost Breakdown Structure (CBS) RegisterCost Item Record

CBS Code:Optional Code:Description:Forecast (T/O) Qty:Unit of Measure:Unit Cost:Total Cost:Currency:

171200 0100Toll Booth1.00Each\$25,264.55\$25,264.55U.S. Dollar

17.10220Site Preparation1.00Lump Sum\$3,664.55\$3,664.55U.S. Dollar

PI Assignment:PI Line Number:PI Description:Cost Segment:Pay Quantity:Cost Source:Alternate:

1200 0100170Toll BoothDirect Cost1.00DetailBASE

Cgst Item SummaryDetail : \$3,664.55Plug : \$2,500.00Quote : \$0.00Allocation

Cost Category	Unit Cost	Total Cost
Total	\$2,500.00	\$2,500.00
Labor	\$0.00	\$0.00
Owned Equipment	\$0.00	\$0.00
Rented Equipment	\$0.00	\$0.00
Supplies	\$0.00	\$0.00
Materials	\$0.00	\$0.00
Subcontract	\$2,500.00	\$2,500.00
Fees	\$0.00	\$0.00
Allowance	\$0.00	\$0.00
Custom Category1	\$0.00	\$0.00
Undefined	\$0.00	\$0.00
Billing Rate	\$0.00	\$0.00
Billing Rate Markup	\$0.00	\$0.00

Cost Item Setup

Default Pay Rules

Scale 1:Scale 2:Scale 3:

Composite Wage Scale:100.000.000.00

For every 8.00 hours worked, pay 8.00 hours

Default Shift Arrangements

Work Hours per Shift:Shifts per Day:Days per Week:

8.001.005.00

Default Properties

Account Code:8000

Cost Curve:Linear

5.3.3.2 DETAIL TAB

Cost Breakdown Structure (CBS) RegisterCost Item Record

CBS Code:Optional Code:Description:Forecast (T/O) Qty:Unit of Measure:Unit Cost:Total Cost:Currency:

171200 0100Toll Booth1.00Each\$25,264.55\$25,264.55U.S. Dollar

17.10220Site Preparation1.00Lump Sum\$3,664.55\$3,664.55U.S. Dollar

PI Assignment:PI Line Number:PI Description:Cost Segment:Pay Quantity:Cost Source:Alternate:

1200 0100170Toll BoothDirect Cost1.00DetailBASE

Cgst Item SummaryDetail : \$3,664.55Plug : \$2,500.00Quote : \$0.00Allocation

Row	NU...	C...	Resource	Description	Quantity (Less Waste)	Waste % Add-on	Qua...
+	1	LL2		Laborer			3.00
+	2	LO1		Operator Class 1			1.00
+	3	EG14G		Grader 14G			1.00
+	4	ETWT		Water Truck			1.00
+	5	LT1		Teamster			1.00

Cost Item Setup

Default Pay Rules

Scale 1:Scale 2:Scale 3:

Composite Wage Scale:100.000.000.00

For every 8.00 hours worked, pay 8.00 hours

Default Shift Arrangements

Work Hours per Shift:Shifts per Day:Days per Week:

8.001.005.00

Default Properties

Account Code:8000

Cost Curve:Linear

Entering both a detailed and plug cost allows you to define costs at a higher summary level initially (Plug tab), and then define more detail as the estimating process progresses (Detail tab). You can

InEight Inc. | Release 25.7

Page 245 of 402

review and compare your plug and detail values by toggling between tabs, but your cost item will only contribute the total cost from one of the tabs based on which cost source is selected.

You control which cost is used by selecting **Detail** or **Plug** in the Cost Source field on the Cost Item Record.

The screenshot shows the 'Cost Item Setup' dialog box. The 'Cost Source' dropdown is open, with 'Plug' selected. The background table has the following data:

Forecast (T/O) Qty:	Unit of Measure:	Unit Cost:	Total Cost:	Currency:
1.00	Each	\$24,100.00	\$24,100.00	U.S. Dollar
1.00	Lump Sum	\$2,500.00	\$2,500.00	U.S. Dollar

Below the table, the 'Cost Segment' is 'Direct Cost' and 'Pay Quantity' is 1.00. The 'Cost Source' dropdown is open, showing 'Plug' as the selected option. The 'Alternate' dropdown is set to 'BASE'. The 'Cost Item Setup' dialog box is open, showing various settings like 'Default Pay Rules', 'Composite Wage Scale', 'Default Shift Arrangement', 'Work Hours per Shift', and 'Default Properties'.

TIP

The Quote Cost Source can only be selected from the Quote Comparison & Award form. See Lesson 8 – Quote Comparison.

5.3.4 PLUG COSTS

The following steps walk you through defining a plug cost on a cost item.

STEP BY STEP – DEFINE A PLUGGED COST

1. From the Estimate tab, select **Cost Breakdown Structure (CBS)**.
2. Right-click on the **row header** for a cost item and select **Open**.
3. In the Cost Source drop-down field select **Plug**.

- 4. In the left section of the cost item, select the **Plug** tab.
- 5. Click in the Unit cost or Total cost field for a cost category and type in a **Numeric Value**.
 - For this example, on the Mobilization cost item, we'll add \$10,000 in the Total Cost field for both Labor and Owner Equipment.

1

200

SITEWORK & ROADWAY

1.1

641 0100

Mobilization

PI Assignment:

PI Line Number:

PI Description:

641 0100

1.1

Mobilization

Cost Item Summary

Detail : \$0.00

Plug : \$20,000.00

Quote : \$0.00

Allocation

Cost Category	Unit Cost	Total Cost
Total	\$20,000.00	\$20,000.00
Labor	\$10,000.00	\$10,000.00
Owned Equipment	\$10,000.00	\$10,000.00
Rented Equipment	\$0.00	\$0.00

5.3.5 DETAIL COSTS

The **Detail** cost method is also defined on the Cost Item Record. On the Detail tab, you can add resources (labor, equipment, and material) and define production.

On the Production tab (right side of screen), define production by entering one of the following:

- A duration, or
- A unit per duration, or
- A duration per unit

When you enter a production value, all the other production fields will auto-fill based on what you entered.

Cost Item Summary

Detail : \$11,909.51

Plug : \$20,500.00

Quote : \$500.00

Allocation

Find: [Search For...]

Saved views: Previous View

Row Nu...	C...	Resource Assembly	Description	Quantity (Less Waste)	Waste % Add-on	Quantity	Unit of Mea...	Product... Factor	W... H...	Pay H...	Unit Cost
1	LT1		Teamster			1.00	Each	1.00	80.00	80.00	\$30
2	ETLT		Lowboy Trailer			1.00	Each	1.00	80.00	80.00	\$39
3	ETTT		Tractor Truck			1.00	Each	1.00	80.00	80.00	\$78

Resources

Production

Duration Driven Resources

Customize Display

Days: 10.00

Shifts: 10.00

Hours: 80.00

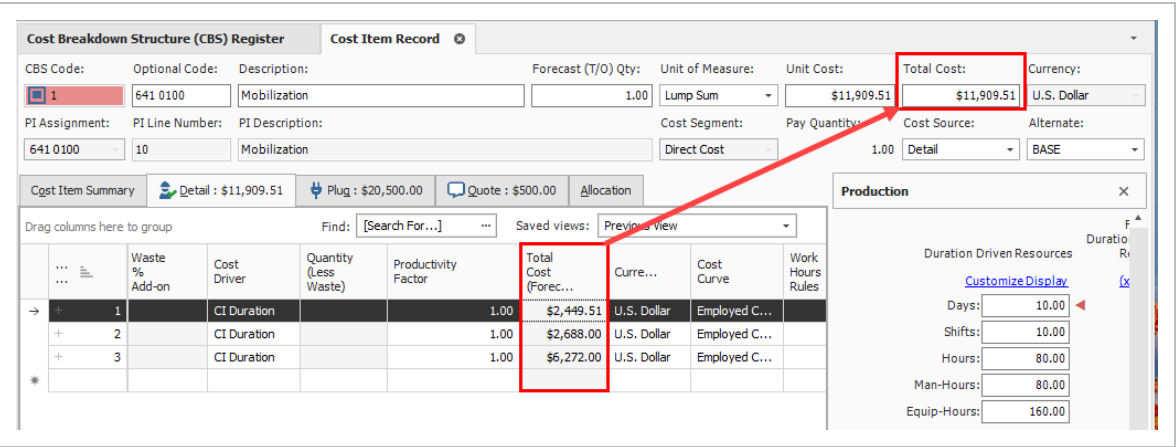
Man-Hours: 80.00

Equip-Hours: 160.00

The hours defined on the Production tab drive the labor and equipment resources you employ on the left, multiplying their unit costs by the production hours.

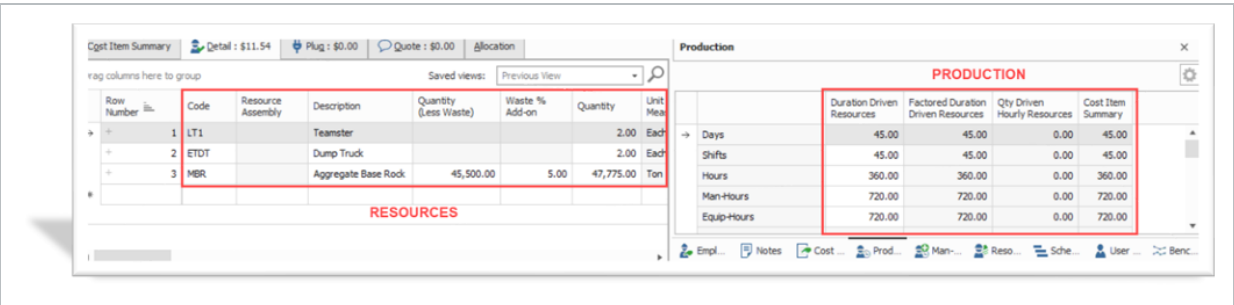
When you employ material resources, their costs are driven by the quantity you enter into the quantity field.

The Total Cost of each resource is added together to give you the Total Cost for the cost item.



STEP BY STEP – DETAIL COSTS

1. On the Detail tab, add resources (labor, equipment, and material).
 2. On the Production tab, define production (duration, unit per duration, or duration per unit).
 3. The hours defined on the Production tab drive the labor and equipment resources on the left, multiplying their unit costs by the production hours.
- With material resources, their costs are driven by the quantity entered in the quantity field.



5.3.5.3 ADD COST DETAIL

The following steps walk you through adding resources and production on a cost item.

STEP BY STEP – ADD COST DETAIL

1. From the Estimate tab, select **Cost Breakdown Structure (CBS)**.
2. Right-click on **row header** for a cost item and select **Open**.
3. Select the **Detail** tab.
4. A blank row is available to define your costs. With your cursor in the code field, click the **Resource Selection** icon to open the Resource Selection Register.
5. Select a resource tab (e.g., Labor).
6. Select a resource.
7. Select **OK**.
8. Repeat the steps to add additional resources as needed.
9. Click in each resource’s quantity field to change their quantity as needed.
10. From the lower-right section of the form, select the **Production** tab.
11. Type a **numeric value** in the Days field, then press **Tab**.
12. Click **OK** to close the record.
 - For this example, we’ll add cost detail to the Clearing cost item, adding the following labor and equipment resources and production value:

Resource	Quantity
LL2 Laborer	2
LO1 Operator Class 1	1
EL988 Loader 988	1
Cost Item Production Value (in Days)	
8	

5.3.5.4 ADD ASSEMBLY

STEP BY STEP – DEFINE COST DETAIL BY ADDING AN ASSEMBLY

1. From the Estimate tab, select **Cost Breakdown Structure (CBS)**.
2. Right-click on the **row header** for one of the cost items and select **Open**.
3. Select the **Detail** tab.
4. With your cursor in the Resource Assembly field, click the **Resource Assembly Selection** icon to open the Resource Assembly Selection Register.
5. Select an assembly, then click **OK**.
6. Because this crew includes duration-based resources, you need to enter a Production value. Select the **Production** tab.
7. Type a **numeric value** in one of the production fields (e.g., UoM/day), then press **Tab**.
 - For this example, on the Grading cost item, we'll add a Grading assembly with a production value of 1 Acre/Day.

The screenshot displays the 'Detail' tab for a 'Grading' cost item. The main table lists resource assemblies for a 'Grading Crew' with quantities and units. A 'Production' panel on the right shows duration-driven resources like Days, Shifts, Hours, Man-Hours, and Equip-Hours, with a custom entry 'Acre/Day' highlighted.

Row Number	Code	Resource Assembly	Description	Quantity (Less Waste)	Waste % Add-on	Quantity	Unit of Measure	Prod Fac
1	ETWT	CGRADE	Water Truck			0.50	Each	
2	LL2	CGRADE	Laborer			1.00	Each	
3	LO3	CGRADE	Operator Class 3			2.00	Each	
4	EG14G	CGRADE	Grader 14G			1.00	Each	
5	ECOMP1	CGRADE	Compactor Smooth Drum			1.00	Each	
6	LO4	CGRADE	Operator Foreman			1.00	Each	

	Duration Driven Resources	Factored Duration Driven Resources
Days	10.00	10
Shifts	10.00	10
Hours	80.00	80
Man-Hours	320.00	320
Equip-Hours	200.00	200
Acre/Day		
Acre/Shift	1.00	
Acre/Hour	0.13	
Acre/Man-Hr	0.03	

EXERCISE 5.2 – DEFINE COST DETAIL

For cost items you create in InEight Estimate, you need to add resources, assemblies and production to define their costs. In this exercise, you will practice defining cost details. Complete the following steps, using your job:

Add the following or similar resources and production to your 1.3.1 Excavate cost item.

Code	Description	Quantity
LO1	Operator Class 1	1
LL2	Laborer	2
LL3	Labor Foreman	1
EX225	Excavator 225	1
CY/Hour	400	

Add the following resources and production to the 1.3.2 Haul cost item.

Code	Description	Quantity
LO1	Operator Class 1	1
LL2	Laborer	2
LL3	Labor Foreman	1
LT1	Teamster	1
EL950	Loader 950	1
ETDT	Dump Truck	1
EX225	Excavator 225	1
CY/Hour	400	

Add the following resource and quantity to the 2.1.1. Furnish Pipe Materials cost item.

Code	Description	Quantity
MPP10	Pipe 10" PVC SDR21	1,000 with 5% Waste % Add-on = 1,050 LF

Add the following assembly to the 2.1.2 Excavate-Install-Backfill Pipe cost item.

Code	Description	Quantity
CPIPE	Pipe Crew	1

Add the following production value to cost item.

Days	3
------	---

You should end up with the similar results:

1	SITEWORK & ROADWAY	1.00	Each	\$87,021.21	\$87,021.21
+ 1.1	Mobilization	1.00	LS	\$20,000.00	\$20,000.00
1.2	Clearing & Grubbing	15.00	Acre	\$1,399.82	\$20,997.25
+ 1.2.1	Clearing	15.00	Acre	\$468.48	\$7,027.16
+ 1.2.2	Grading	10.00	Acre	\$1,397.01	\$13,970.09
1.3	Excavation	40,000.00	CY	\$1.15	\$46,023.96
+ 1.3.1	Excavate	40,000.00	CY	\$0.43	\$17,227.04
+ 1.3.2	Haul	40,000.00	CY	\$0.72	\$28,796.93
2	WATER & SEWER	1.00	Each	\$9,603.73	\$9,603.73
2.1	10 PVC Pipe	1,000.00	LF	\$9.60	\$9,603.73
+ 2.1.1	Furnish Pipe Materials	1,000.00	LF	\$3.54	\$3,538.08
+ 2.1.2	Excavate-Install-Backfill Pipe	1,000.00	LF	\$6.07	\$6,065.65

Congratulations, you have completed this exercise!

5.4 COST ITEM DETAILS

The Cost Item Record contains other tabs (called Data Blocks) in addition to the Production tab, for storing and calculating information specific to that cost item.

Cost Item Setup

Cost Item Setup

Scale 1: Scale 2: Scale 3:

Composite Wage Scale: 100.00 0.00 0.00

For every 8.00 hours worked, pay 8.00 hours

Period Quantities

☐ Use Period Quantities [Edit](#)

Default Shift Arrangements

Work Hours per Shift: 8.00 Shifts per Day: 1.00 Days per Week: 5.00

Execution

Allow As-Built: None

Default Properties

Account Code: 1020

Cost Curve: Linear

Worker's Comp Override:

Quantity Driver: Pay Item

Quantity Roll-Up:

Quote Group Tag:

Tag 1: Estimator 1

Tag 2: Roadway

Tag 3:

Tag 4:

Tag 5:

Tag 6:

Empl... Notes Cost It... Produc... Man-H... Resou... Schedule User D... Bench...

You can add to or adjust the information on these tabs as needed, based on the cost item's circumstances. In this section, you will review three of the tabs (in addition to the Production tab) you will likely use most often: Cost Item Setup, Notes, and Man-Hour Factors.

5.4.1 COST ITEM SETUP

On the data block where the Production tab was found, there is also a Cost Item Setup tab where you can adjust wage scale and shift arrangements for a specific cost item.

Cost Item Setup

Default Pay Rules

Composite Wage Scale: 100.00 Scale 1: 0.00 Scale 2: 0.00 Scale 3: 0.00

For every 8.00 hours worked, pay 8.00 hours

Default Shift Arrangements

Work Hours per Shift: 8.00 Shifts per Day: 1.00 Days per Week: 5.00

Period Quantities

☐ Use Period Quantities [Edit](#)

Execution

Allow As-Built: None

Default Properties

Account Code: 1020 Tag 1: Estimator 1

Cost Curve: Linear Tag 2: Roadway

Worker's Comp Override: Tag 3: Tag 4: Tag 5: Tag 6: Tag 7: Tag 8: Tag 9: Tag 10: Tag 11: Tag 12: Tag 13: Tag 14: Tag 15:

Quantity Driver: Pay Item

Quantity Roll-Up: Tag 15:

Quote Group Tag: Tag 15:

Minority Goal Allowance: 100.00

Phase Code: Tag 15:

When man-count changes: ☒ Change UM / Man-Hour ☐ Change Days

Suspend: ☐

Emplo... Notes **Cost It...** Produc... Man-H... Resou... Schedule User D... Bench...

The composite wage scale and work and pay hours are used in the calculation of the cost of employed labor resources. The data reported on the Default Pay Rules tab is, by default, the composite wage scale and work and pay hours defined on the Job Properties - Cost Basis tab for the current job.

These settings can be modified from the default on a cost item-by-cost item basis.

The Pay Rules for cost items can also be defined or modified on the Cost Breakdown Structure (CBS) Register in the Scale 1, Scale 2, Scale 3, Work Hours Rules, and/or Pay Hours Rules columns in the row of the subject cost item.

5.4.1.1 COST CURVES

Cost curves are used to determine how the cost of a cost item is distributed over time. The main benefit of defining the cost curve for a cost item is to create a more accurate estimation of the cash flow over the life of a project.

The schedule dates entered on a Cost Item are used to define the periods across which a cost item will incur its costs. A cost item's start and finish dates can be entered manually by the user or established using Schedule Integration, and the time periods (day, week, month, quarter, year) are determined in

the Cash Flow settings in Job Properties. For more information on scheduling, see topics [Microsoft Project](#) and [Primavera](#).

By default, Cost Items have a linear cost curve, which distributes the cost of the cost item equally across all periods for the Cost Item. There are 5 different types of cost curves that can be selected from in the Cost Item Record > **Cost Item Setup** page.

Cost Item Setup

Default Pay Rules

Scale 1:Scale 2:Scale 3:

Composite Wage Scale:100.000.000.00

For every8.00hours worked, pay8.00hours

Period Quantities

☐ Use Period Quantities

Default Shift Arrangements

Work Hours per Shift:Shifts per Day:Days per Week:

8.001.005.00

Execution

Allow As-Built:None

Default Properties

Account Code:1110

Cost Curve:Linear

Worker's Comp Override:Description

Quantity Driver:Back Loaded

Quantity Roll-Up:Bell Shaped

Quote Group Tag:Front Loaded

Minority Goal Allowance:Linear

Phase Code:

When man-count changes:

Tag 1:Estimat

Tag 2:Roadw

Tag 3:

Tag 4:

Tag 5:

Tag 6:

Tag 7:

Tag 8:

Tag 9:

Tag 10:

Cost curve type	Definition
Back Loaded	Costs are low for most of an activity's timeline, but then increase towards the end. This curve type starts out with a lower slope and gradually becomes steeper as the work progresses. Most resources are assumed to be consumed later in the activity and may be more characteristic of subcontracted work

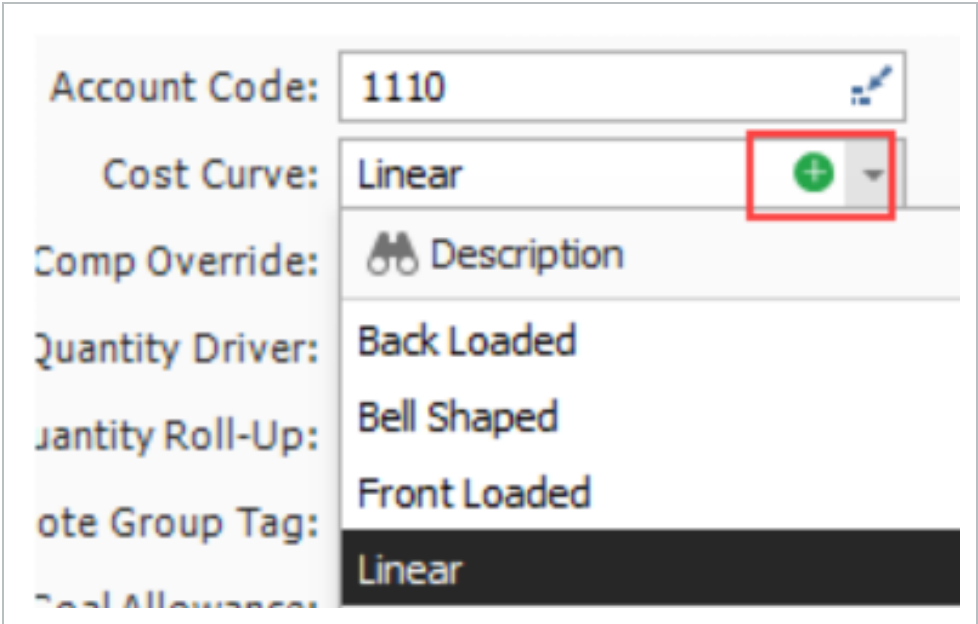
InEight Inc. | Release 25.7

Page 255 of 402

(continued)

Cost curve type	Definition
	where costs are incurred as the work nears completion.
Bell Shaped	Expenses are low at the start of an activity, increase during construction, and decrease as the project approaches completion. Bell shaped cost curves incur the majority of their costs towards the mid-point of the work and exponentially increase and decrease from the beginning to the end of the activity. This type of curve can be characteristic of larger portions of work that start with a few resources, ramp up to a peak, incurring more costs during the ramp up, then ramp back down as the work nears completion.
Front Loaded	A front-loaded cost curve is when costs are incurred early in a activity. This can happen for several reasons such as early procurement of materials to take advantage of lower prices or to address long lead times.
Linear	Linear cost curves take the total cost of the activity and spreads it equally amongst the specified periods.
Cost Item Periods	Invoked by using the Period Quantities feature (described below). Cost Item Periods are used to customize cost curves based on the quantities consumed in various periods. In comparison to the other curves which spread the items total cost proportionally based the chosen cost curve, the Cost Item Periods option can generate a more precise distribution of costs to specific periods because the user can simply define how much quantity of work is getting completed in each specific period.

You can also choose to create your own custom cost curve by clicking on the **add button** in the Cost Curve drop-down menu.



Custom cost curves let you define your own from and to durations along with their associated values, which need to add up to 100%.

Cost Curve Record - Training Job

Description: * Expedited projects

Number of Points: 8

	From Duration %	To Duration %	Value %
→	0	50	5
	50	50	5
	50	50	10
	50	50	10
	50	100	30
	100	100	10
	100	100	10
	100	100	20

100.00

OK

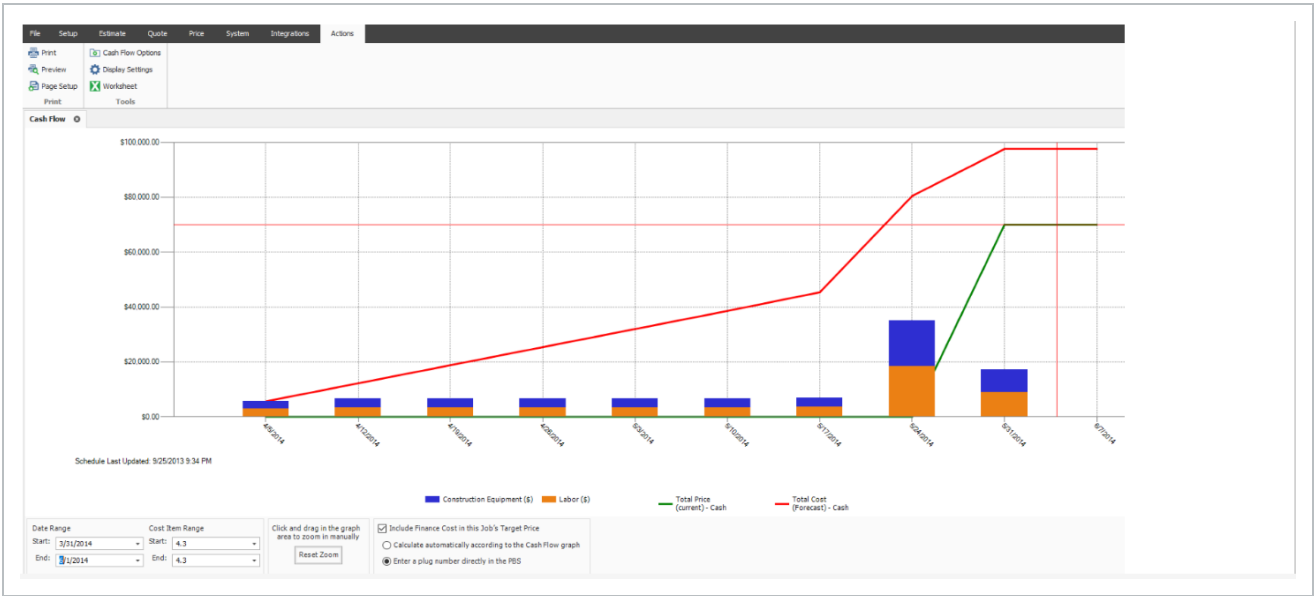
Cancel

CASH FLOW

All cost curves, regardless of type, impact the generation of the cash flow graph. The [Cash Flow](#) form provides a graphical representation of the cash flow and resource utilization of your project, so you can quickly assess financing and resource needs.

You can open the Cash Flow form by selecting the **Estimate** tab from the Estimate landing page, then selecting **Cash Flow** from the Schedule section.

To generate a cash flow curve, the estimate must be populated with schedule dates either directly from integration with Primavera, Microsoft project, or input manually.



CASH FLOW OPTIONS

The [Cash Flow Options](#) are used to define the cash flow rules (revenue timing, cost timing, cost of money, and quantities) needed to calculate the finance expense and cash flow for your project.

Cash flow rules (revenue timing, cost timing, cost of money, and quantities) describe how cash flow occurs between a contractor and a client, and between contractors or owners and vendors/subcontractors. Cash flow is then calculated based on both the earning and payment terms you specify, and the job's schedule and pay item prices.

File

Setup

Estimate

Quote

Price

System

Integrations

Job Properties

Foundation Setup Data

Pay Item & Proposal

Bid Wizard

Resources

Equipment

Materials

Labor

Resource Assemblies

Cost Item Assemblies

Standard Tables

Reports

Initialize

Resources

Assemblies

Reports

Cash Flow

Job Properties

Overview

Cover Sheet

Cost Basis

Minority Setup

Fuel Cost

Job Folder Tags

Pricing

Schedule

Cash Flow

Equip

Revenue timing

Bills are submitted to the owner:

☐ At the end of the job

☒ Every month on this day: 25

☐ Every 1 weeks

☐ Every 1 days

Average calendar days elapsed from billing to collection:

30 days

Amount of each billing that is withheld by owner as retainage:

5.00 %

Retainage is released:

☒ At the end of the job

☐ On a specific date:

☐ Spread revenue using the same Cost Curves as the contributing Cost Items

Cost timing

Bills are received from subcontractors and vendors:

☐ At the end of the job

☒ Every month on this day: 25

☐ Every 1 weeks

☐ Every 1 days

Average calendar days elapsed from receipt of invoice to payment:

35 days

Amount of each invoice received that is withheld by you as retainage:

5.00 %

Retainage is released to subcontractors and vendors:

☒ At the end of the job

☐ On a specific date:

☒ Apply cash timing rules for all procurable cost categories (non labor and equipment), even if their cost source is not set to "Quote"?

Cost of money

Average annual interest rate paid to borrow money (when cost exceeds revenue):

8.00 %

Average annual interest rate earned (when revenue exceeds cost):

3.00 %

Quantities

☐ Pay Quantity

☒ Forecast (T/O) Quantity

Reporting Periods

Period setting for cash flow:

Day

Dates

Early Start / Finish

Cancel

CASH FLOW DISPLAY SETTINGS

The [Cash Flow Display Settings](#) allow you to control what information displays on the Cash Flow graph.

Cash Flow Display Settings

Settings: Previous

☒ Display this text as a custom report title:
Example cash flow

Period Week

Cost Items

☐ Total Cost (Forecast)

☐ Total Price (current)

☒ Total Cost (Forecast) - Cash

☒ Total Price (current) - Cash

☐ Cash Flow

☐ Finance Cost

☐ As-Built Total Cost

☐ CE-Total Cost Earned (to-date)

Cost Categories

Estimated

As-Built

Planned To Date

Labor

Owned Equipment

Rented Equipment

Supplies

Materials

Subcontract

Fees

Allowance

Custom Category1

Undefined

☐

☐

☐

☐

☐

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☐

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Resources

☒ Resource Utilization

Summarize resources by: Resource Type

Get data from:
☒ This job's utilized resources
☐ All Library resources

Value

☒ Labor

☒ Construction Equipment

☐ Rented Construction Eq...

☐ Installed Material

☐ Installed Equipment

☐ Supply

☐ Unique

Qty	Cost	AB Qty	AB Cost

Quantity: None

Cost: Stacked Bar

As-Built Quantity: None

As-Built Cost: None

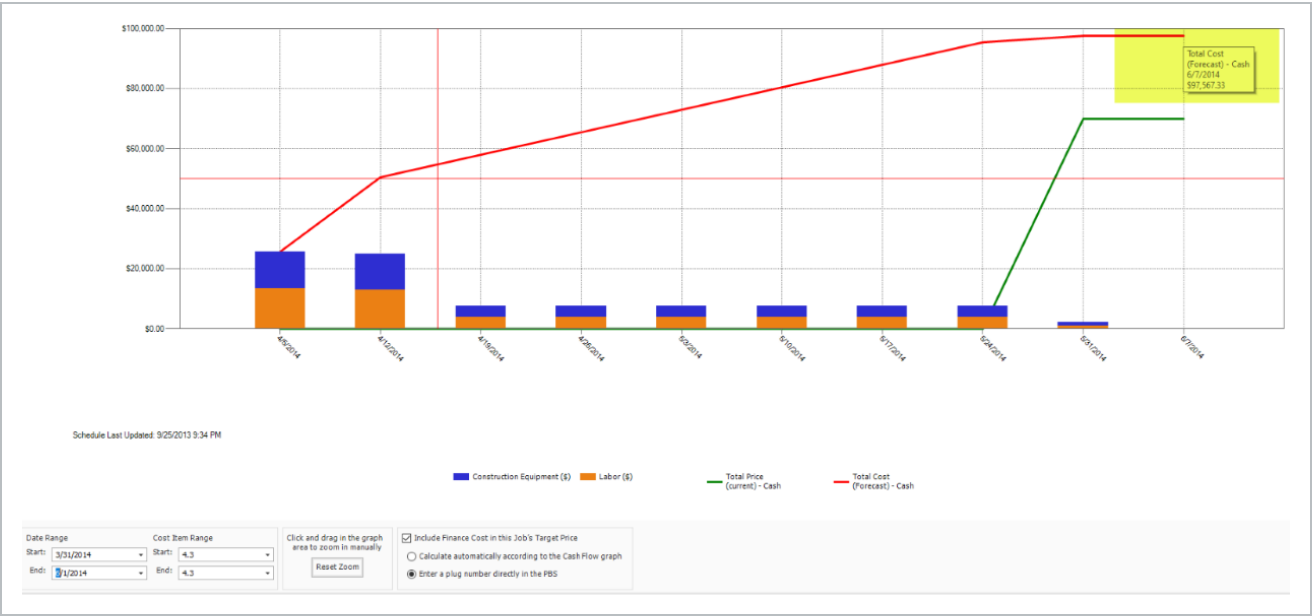
CASH FLOW EXAMPLE

Using the Period Quantities cost curve type as an example, on the Cash Flow graph, you can see that 50% of the total cost for this cost item, represented by the red line, is incurred in the first period of the project. Half of the project’s cost is incurred during the first period of the project’s lifespan as determined by what is entered in the cost item’s period quantities.

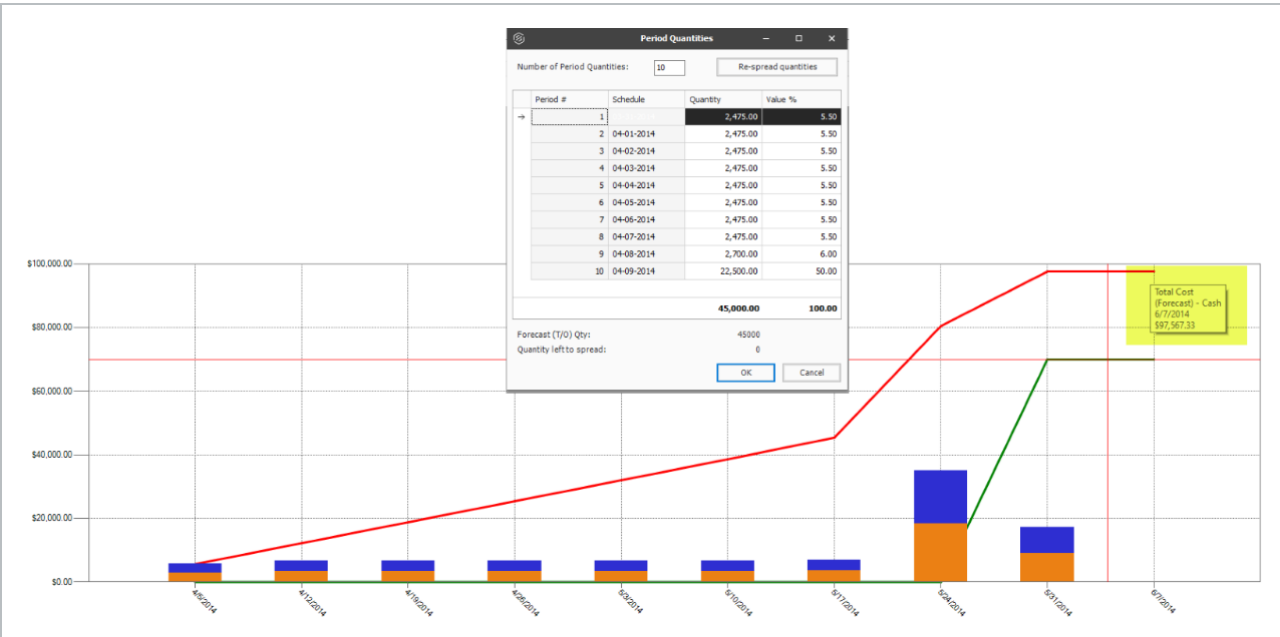
A reason why half of the project’s cost is being used during the first period could be that resources available to perform the project happen to be mostly available during the front end of the project.



After the first period, the project incurs the remaining balance of the total project cost of \$95,000. This is spread equally with quantities of \$5,625 amongst the last three periods. This information helps you to better understand when the owner provides payment, in addition to deciding if more project funding or financing is needed.



Perhaps most costs on this one item will be incurred at the end of the activity, such as a subcontractor billing for most of his work as it nears completion. If it's determined costs are incurred towards the end of the activity, you can attribute most of the cost items quantity in the last period. You can add any number of additional periods to a custom cost curve or to a cost curve defined by period quantities curve and the costs will be proportionally spread across the actual number of periods defined by the Cost Items start and finish dates and cash flow settings. Be aware reducing the number of periods in a front or back end loaded curve may show a steeper total cost in some periods.



Using period quantities as the cost curve helps you determine how much of a cost item's cost is going to be spread in different durations of time.

PERIOD QUANTITIES

Like the other four cost curves, Period Quantities are used to customize cost curves, which show you a graphical representation of the cash flow and resource utilization so you can assess the proper financing and resource project needs. When the Period Quantities check box is selected, the Cost Curve automatically changes to Cost Item Periods.

Cost Item Setup

Default Pay Rules

Scale 1: Scale 2: Scale 3:

Composite Wage Scale: 100.00 0.00 0.00

For every 8.00 hours worked, pay 8.00 hours

Default Shift Arrangements

Work Hours per Shift: Shifts per Day: Days per Week:

8.00 1.00 5.00

Execution

Allow As-Built: None

Period Quantities

☒ Use Period Quantities

Default Properties

Account Codes: 1122.100

Cost Curve: Cost Item Periods

Worker's Comp Override:

Quantity Driver: Superior CI

Quantity Roll-Up: 110.20

Quote Group Tag:

Minority Goal Allowance: 100.00

Phase Code:

When man-count changes: ☒ Change UM / Man-Hour ☐ Change Days

Suspend: ☐

Tag 1: Estimator 1 Tag 16:

Tag 2: Roadway Tag 17:

Tag 3: Tag 18:

Tag 4: Tag 19:

Tag 5: Tag 20:

Tag 6: Tag 21:

Tag 7: Tag 22:

Tag 8: Tag 23:

Tag 9: Tag 24:

Tag 10: Tag 25:

Tag 11:

Tag 12:

Tag 13:

Tag 14:

Tag 15:

Employee... Notes Cost Item ... Production Man-Hour ... Resource ... Schedule User Defin... Benchmar...

The Period Quantity calculator uses the cost item quantity assigned to various periods to calculate the specific percentages attributable to each range of periods covered by the cost item. The purpose of using period quantities is to spread costs via the cost curve in the cash flow analysis. For example, if you have an item where 50% of the cost is incurred when you start the work because you have to buy all the material first, then you would want a customized cost curve to reflect that this is how the costs will be incurred over time when building that work.

In the example below, since 50% of the cost is incurred when the project starts, period one's quantity is 50% of 45,000 Forecast (T/O) Qty which is 22,500. The remaining costs are then spread equally across the remaining three periods.

CBS Position Code	Description	Start	Finish	Forecast (T/O) Quantity
4.3	Install Aggregate Base	3/31/2014	5/26/2014	45,000.00

Period Quantities

Number of Period Quantities: 5

Re-spread quantities

Period #	Schedule	Quantity	Value %
1	03-31-2014	22,500.00	50.00
2	04-01-2014	5,625.00	12.50
3	04-02-2014	5,625.00	12.50
4	04-03-2014	5,625.00	12.50
5	04-04-2014	5,625.00	12.50
		45,000.00	100.00

Forecast (T/O) Qty: 45000

Quantity left to spread: 0

OK

Cancel

You can also choose to select the Re-spread quantities button to spread the quantities equally among the periods entered in the Number of Period Quantities field.

Period Quantities

Number of Period Quantities: 5

Re-spread quantities

Period #	Schedule	Quantity	Value %
→ 1		9,000.00	20.00
2		9,000.00	20.00
3		9,000.00	20.00
4		9,000.00	20.00
5		9,000.00	20.00
		45,000.00	100.00

Forecast (T/O) Qty: 45000

Quantity left to spread: 0

OK

Cancel

STEP BY STEP – ADJUST SHIFT ARRANGEMENTS

1. From the Estimate tab, select **Cost Breakdown Structure (CBS)**.
2. Right-click on the **row header** for a cost item and select **Open**.
3. Select the **Cost Item Setup** tab in the lower-right portion of the form (the tab name may be abbreviated).
4. In the Default Pay Rules data block, adjust your Composite Wage Scale as needed.

The screenshot shows the 'Cost Item Setup' dialog box. At the top, there are fields for '15.00', 'Acre', '\$1,079.93', '\$16,198.97', and 'U.S. Dollar'. Below these are 'Cost Segment: Direct Cost', 'Pay Quantity: 10.00', 'Cost Source: Detail', and 'Alternate: BASE'. The 'Default Pay Rules' section is expanded, showing 'Composite Wage Scale: 80.00', 'Scale 1: 80.00', 'Scale 2: 20.00', and 'Scale 3: 0.00'. Below this, it says 'For every 8.00 hours worked, pay 8.00 hours'. The 'Default Shift Arrangements' section shows 'Work Hours per Shift: 8.00', 'Shifts per Day: 1.00', and 'Days per Week: 5.00'. The 'Default Properties' section is partially visible at the bottom.

5. Under the Composite Wage Scale, adjust the number of hours and paid as needed

This screenshot is a closer view of the 'Default Pay Rules' section. It shows 'Composite Wage Scale: 80.00', 'Scale 1: 80.00', 'Scale 2: 20.00', and 'Scale 3: 0.00'. Below this, it says 'For every 10.00 hours worked, pay 10.00 hours'. The 'Default Shift Arrangements' section shows 'Work Hours per Shift: 8.00', 'Shifts per Day: 1.00', and 'Days per Week: 5.00'.

6. In the Default Shift Arrangements data block, make changes as needed.

Cost Item Setup

Default Pay Rules

Scale 1: 80.00 Scale 2: 20.00 Scale 3: 0.00

Composite Wage Scale: 80.00 20.00 0.00

For every 10.00 hours worked, pay 10.00 hours

Default Shift Arrangements

Work Hours per Shift: 10.00 Shifts per Day: 1 Days per Week: 5.00

- For this example, we'll make the following changes on the Clearing cost item:
 - Composite Wage Scale – 80% Scale 1, 20% Scale 2.
 - For every 10 hours worked, pay 10 hours.
 - Default Shift Arrangements – Change Work Hours per Shift to 10.

Cost Item Setup

Default Pay Rules

Scale 1: 100.00 Scale 2: 0.00 Scale 3: 0.00

Composite Wage Scale: 100.00 0.00 0.00

For every 8.00 hours worked, pay 8.00 hours

Default Shift Arrangements

Work Hours per Shift: 8.00 Shifts per Day: 1.00 Days per Week: 5.00

5.4.2 NOTES

On the Cost Item Record, you can enter any cost item-specific instructions, parameters, or general information on the Notes tab. Below are a few examples of the kinds of notes you might enter:

- **For a Hauling cost item:** *There should be very little waste. If so, we can spread it out in the right of way at MP 111*
- **For a Structural Excavation and Backfill item:** *The backfill cannot be the native material. Have to use clean base rock*
- **For an Underground Pipe cost item:** *The average depth is close to 10 ft.*

TIP

You can use the Notes tab to reference cost item changes (e.g., changing shift arrangements, changing a resource rate).

5.4.3 MAN-HOUR FACTORS

For items that have known risks or potential resource concerns, you can apply a Man-Hour Factor to take those risks into consideration.

Man-Hour factors are applied on the Man-Hour Factors tab on the Cost Item Record. Factors are applied in relation to 1, where slower production is greater than 1 and faster production is less than 1.

TIP

Man-Hour Factors affect both Labor and Equipment Hours.

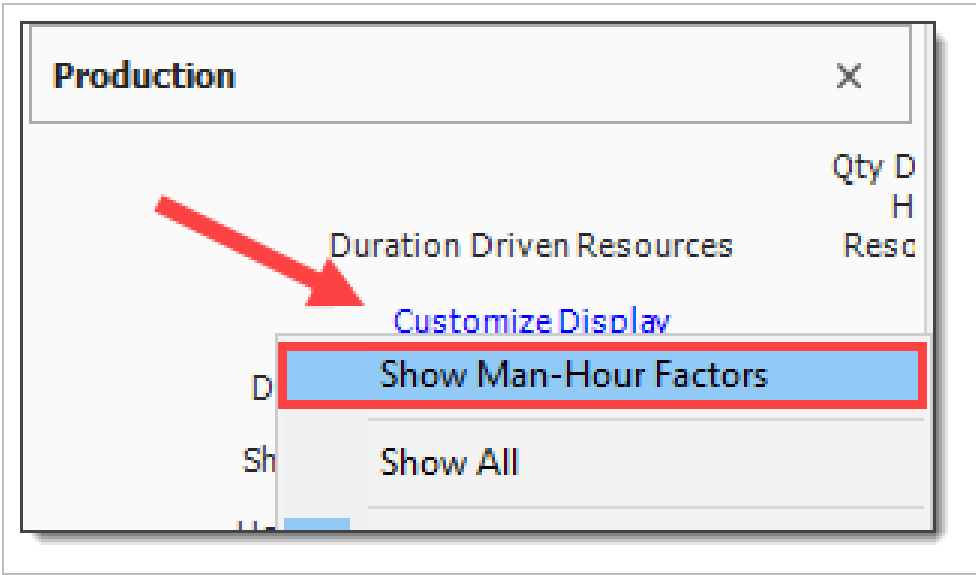
For example, if you predict production to be 20% slower due to weather concerns, you would type 1.2 in the weather factor field.

Factor Name	Factor
Factor 1:	1.20
Factor 2:	1.00
Factor 3:	1.00
Factor 4:	1.00
Factor 5:	1.00
Factor 6:	1.00
Factor 7:	1.00
Factor 8:	1.00
Factor 9:	1.00
Factor 10:	1.00

FactorComposite: 1.2000

Even after defining a Man-Hour Factor, the Production tab will still display the original Production values.

- To see the factored Production values, click the **Customize Display** link on the **Production** tab and select **Show Man-Hour Factors**
- Both original and factored production are then displayed on the Production tab



TIP

You can apply Man-Hour Factors to multiple cost items at once by Multi-Editing selected cost items on the CBS Register.

5.4.4 UNIQUE IDENTIFIER

You may have noticed when you made changes on the Cost Item Setup tab, that the fields you changed and the Cost Item Setup tab became highlighted, indicating they were altered from their original state.

Cost Item Setup

Default Pay Rules

Scale 1: 80.00Scale 2: 20.00Scale 3: 0.00

Composite Wage Scale: 80.00 20.00 0.00

For every 8.00 hours worked, pay 8.00 hours

Default Shift Arrangements

Work Hours per Shift: 8.00Shifts per Day: 1.00Days per Week: 5.00

Default Properties

Account Code:

Cost Curve: Linear

Worker's Comp Override:

Tag 1:

Tag 2:

Tag 3:

Tag 4:

Tag 5:

Quantity Driver: Superior CI

Quote Group Tag:

Minority Goal Allowance: 100.00

Phase Code:

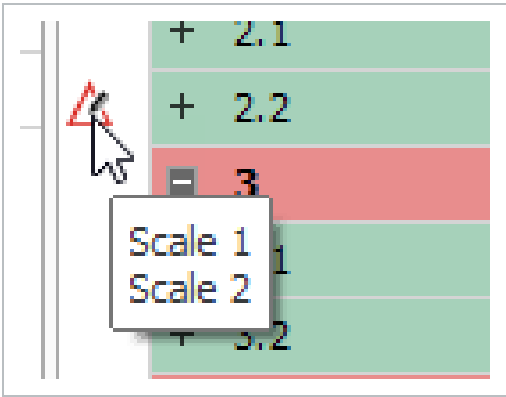
When man-count changes: ☒ Change UM / Man-Hour☐ Change Days

Suspend: ☐

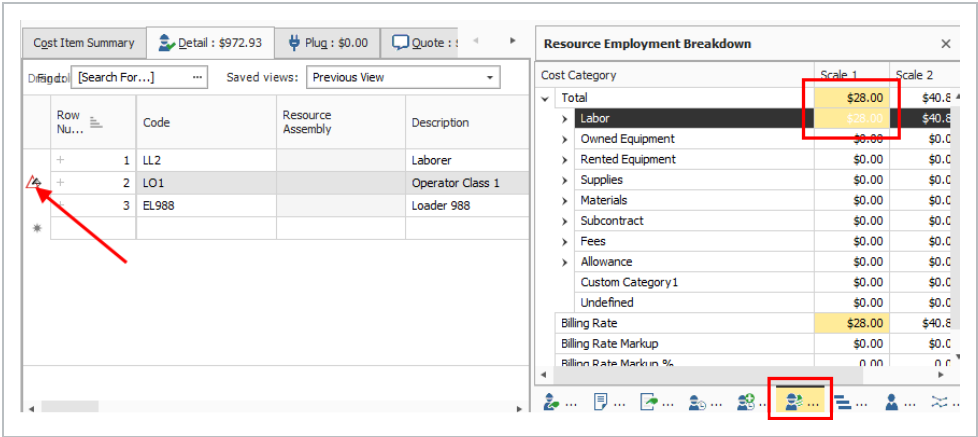
On the CBS Register, the cost item you edited now has a Unique Identifier in the row header indicating the cost item was altered from the default values set in the project job properties or in the project library of resources rates.

		JOB	
id	+	Prime Bond	PRIME
add-On	+	Price % Add-On	PRICE
icing	+	Job Financing	FINAN
igement	+	Job Management & Equipment	JOB M
expense	+	General Expense	GENE
on	+ 1	Mobilization	1000
& Grubb	+ 2	Clearing & Grubbing	2000
in	+ 2.1	Clearing	
ype	+ 2.2	Grading	
	+ 3	Excavation	3000
	+ 3.1	Excavate	
	+ 3.2	Haul	

If you hover over the identifier, a pop-up menu appears indicating what data points were changed.

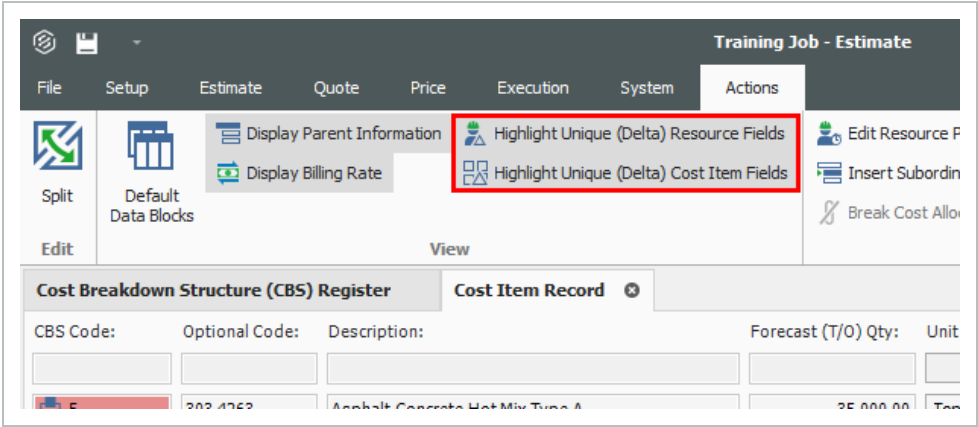


This same identifier will show up for resources as well, if you make changes to the employed resource’s cost to be different than the original resource rate imported from the Resource Rate Register.



5.4.4.2 HIGHLIGHT UNIQUE (DELTA) TOGGLE

You can turn the highlighting of unique resource and cost item fields off and on from the Actions menu of the Cost Item Record, under the View section.



5.4.5 COST DRIVERS

Each type of resource has a default cost driver. For example, Labor resources are duration driven so the cost driver is CI Duration, meaning their costs are driven by the duration of the cost item. If you want an Operator to only be assigned to a specific cost item or work activity for half the time, you can change its quantity to .5 and it will be driven by half of the cost item's hours.

Drag columns here to group

Find: [Search For...] ...

Row Number	Code	Resource Assembly	Description	Quantity	Unit of Mea...	Unit Cost	Waste % Add-on	Quai (Les: Was
+	1	LL2	Laborer	0.50	Each	\$29.00		
+	2	LO1	Operator Clas...	1.00	Each	\$29.94		
+	3	EL988	Loader 988	1.00	Each	\$73.75		

To enter work hours manually for the employed resource, you can change the Cost Driver option to CI Quantity or Fixed.

Drag columns here to group

Find: [Search For...] ... Saved views: Previous View

Row Number	Code	Resource Assembly	Description	Quantity	Unit of Mea...	Unit Cost	Cost Driver	Waste % Add-on	Quantity (Less Waste)
+	1	LL2	Laborer	0.50	Each	\$29.00	CI Duration		
+	2	LO1	Operator Clas...	1.00	Each	\$29.94	Description		
+	3	EL988	Loader 988	1.00	Each	\$73.75	CI Duration		

CI Quantity
Fixed
Scheduled Periods

With CI Quantity as your cost driver for the Operator, you can adjust the Work Hours manually, where previously that column was read-only.

Let's say you want your Operator to work specifically 80 hours.

Drag columns here to group

Find: [Search For...] ... Saved views: Previous View

Row Number	Code	Resource Assembly	Description	Quantity	Unit of Mea...	Unit Cost	Work Hours	Pay Hours	Waste % Add-on	Cost Driver
+	1	LL2	Laborer	0.50	Each	\$29.00	80	60.00		CI Quantity
+	2	LO1	Operator Clas...	1.00	Each	\$29.94	120.00	120.00		CI Duration
+	3	EL988	Loader 988	1.00	Each	\$73.75	120.00	120.00		CI Duration

However, since the resource is now quantity driven, if you change the Forecast (T/O) Quantity to 50 you will see that the work hours will still adjust from 12 to 40.

Cost Breakdown Structure (CBS) Register Cost Item Record Cost Item Record

CBS Code: 2.2 Optional Code: Description: Clearing Forecast (T/O) Qty: 50.00 Unit of Measure: Cubic Yard Unit Cost: \$1,156.70 Total Cost: \$57,835.17 Currency: U.S. Dollar

PI Assignment: 201 0102 PI Line Number: 20 PI Description: Clearing & Grubbing Cost Segment: Direct Cost Pay Quantity: 50.00 Cost Source: Detail Alternate: BASE

Cgst Item Summary Detail: \$1,156.70 Plug: \$0.00 Quote: \$0.00 Allocation

Drag columns here to group Find: [Search For...] Saved views: Previous View

Row Number	Code	Resource Assembly	Description	Quantity	Unit of Mea...	Unit Cost	Work Hours	Pay Hours	Waste % Add-on
1	LL2		Laborer	0.50	Each	\$29.00	240.00	240.00	
2	LO1		Operator Clas...	1.00	Each	\$29.94	480.00	480.00	
3	EL988		Loader 988	1.00	Each	\$73.75	480.00	480.00	

Production

Duration Driven Resources Factored Duration Driven Resources Qty Driv Hou Resour

Customize Display (x1,2000)

Days: 40.00 48.00 48.00

Shifts: 40.00 48.00 48.00

Hours: 400.00 480.00 480.00

Man-Hours: 400.00 480.00 240.00

Equip-Hours: 400.00 480.00 0.00

If you want it set at 80 hours no matter what changes you make to your quantity, you can change the cost driver to Fixed. Then when you change the Forecast Quantity to 500, the work hours for the Operator will not change and will remain at 80 hours as shown below.

CBS Code: 2.2 Optional Code: Description: Clearing Forecast (T/O) Qty: 500.00 Unit of Measure: Cubic Yard

PI Assignment: 201 0102 PI Line Number: 20 PI Description: Clearing & Grubbing Cost Segment: Direct Cost

Cgst Item Summary Detail: \$106.39 Plug: \$0.00 Quote: \$0.00 Allocation

Drag columns here to group Find: [Search For...] Saved views: Previous View

...	Code	Resource Assembly	Description	Quantity	Unit of Mea...	Unit Cost	Work Hours	Pay Hours	Waste % Add-on	Cost Driver	Quantity (Less Waste)	Pri Fa
1	LL2		Laborer	0.50	Each	\$29.00	80.00	80.00		Fixed		
2	LO1		Operator Clas...	1.00	Each	\$29.94	480.00	480.00		CI Duration		
3	EL988		Loader 988	1.00	Each	\$73.75	480.00	480.00		CI Duration		

If you followed along and made any adjustments to cost item 2.1 Clearing, change the Cost Driver for the Operator resource back to **CI Duration** and the Work Hours back to **100**.

5.4.6 SUSPEND COST ITEMS

The Suspend feature allows you to turn cost items on and off in order to perform “what-if?” analysis or evaluate alternative approaches to the work.

A cost item can be suspended in InEight Estimate for various reasons including the following:

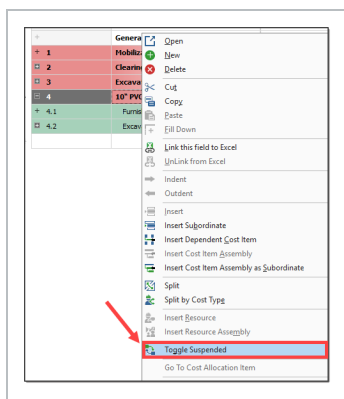
- Manually suspended cost items
- Suspended parent
- Parent with cost source that is not Detail (plugged or quoted)
- Parent cost item with a zero quantity
- Pay item is suspended
- Allocated cost items
- Alternate scenarios:

- Overridden by another alternate
- Alternative is not active

Suspended cost items do not contribute any cost to the job's total value. Suspended items can be unsuspended at anytime in order to be included in the total project value.

STEP BY STEP – SUSPEND A COST ITEM

1. On the **Cost Breakdown Structure (CBS) Register**, select a **cost item**.
2. Right click on the selection and select **Toggle Suspended** from the menu.
 - You can also select Toggle Suspended under the Edit section of the Actions tab up above
 - You can also suspend cost items by checking the Suspend checkbox on the Cost Item Setup tab of a cost item record



- If a superior cost item is suspended, its subordinate cost items are automatically suspended as well

+ 3.1	Excavate	40,000.00	LT
+ 3.2	Haul	40,000.00	CY
4	10" PVC Pipe	1,000.00	LF
+ 4.1	Furnish Pipe Materials	1,000.00	LF
+ 4.2	Excavate-Install-Backfill	1,000.00	LF

- The costs associated with these cost items will no longer contribute to the estimate

5.4.6.3 EDITABLE MAN-HOUR FACTORS IN SUSPENDED COST ITEMS

You can edit Man-Hour Factors for a suspended cost item by creating and maintaining cost items, including Man-Hour Factors. This can be accomplished in a suspended state while having the scope of work included in your estimate. The cost to contribute is excluded from the scope of work until you are ready to make it part of your estimate.

The screenshot displays the 'Cost Breakdown Structure (CBS) Register' window. The main table lists cost items with columns for CBS Code, Optional Code, Description, Forecast (TQ) Qty, Unit of Measure, Unit Cost, Total Cost, and Currency. A cost item with CBS Code '841.000' and Description 'Mobilization' is highlighted. Below the table, the 'Cost Item Summary' shows details for 'Detail', 'Plug', 'Quote', and 'Allocation'. A 'Man-Hour Factors' dialog box is open on the right, showing a list of factors (Factor 1 through Factor 6) with their respective values. The dialog box has a red border and a 'Next >' button.

5.4.6.4 UNSUSPEND A COST ITEM

Follow the step by step below to unsuspend a cost item.

STEP BY STEP – UNSUSPEND A COST ITEM

1. On the Cost Breakdown Structure (CBS) Register, select a **cost item**.
2. Right click on the selection and choose **Toggle Suspended**.
 - You can also select Toggle Suspended from the Edit section of the Actions tab
 - You can also unsuspend cost items by unchecking the Suspend checkbox on the Cost Item Setup tab of a cost item record

5.4.6.5 SUSPEND COLUMN

Within the CBS Register, the Suspend column indicates which cost items are suspended.

CBS Position Code	Description	Suspend	Forecast (T/O) Qu
+ 1	Mobilization	<input type="checkbox"/>	
- 2	Clearing & Grubbing	<input type="checkbox"/>	
+ 2.1	Clearing	<input type="checkbox"/>	
+ 2.2	Grading	<input type="checkbox"/>	
- 3	Excavation	<input type="checkbox"/>	
+ 3.1	Excavate	<input type="checkbox"/>	
+ 3.2	Haul	<input type="checkbox"/>	
- 4	10" PVC Pipe	<input checked="" type="checkbox"/>	
+ 4.1	Furnish Pipe Materials	<input checked="" type="checkbox"/>	
+ 4.2	Excavate-Install-Backfill	<input checked="" type="checkbox"/>	
		<input type="checkbox"/>	

- Hover over the checkmarks to see why the cost item is suspended

+ 3.2	HAUL	<input type="checkbox"/>	
- 4	10" PVC Pipe	<input checked="" type="checkbox"/>	
+ 4.1	Furnish Pipe Materials	<input checked="" type="checkbox"/>	
+ 4.2	Excavate-Install-Backfill	<input checked="" type="checkbox"/>	

Parent is Suspended

- You can suspend and unsuspend cost items by checking and unchecking the checkboxes in the Suspend column as well

5.4.7 ADDING COST ADJUSTMENTS

Total Cost and Billing Adjustments can now be made in the CBS register which can be viewed either from the Standard view of the CBS register, or a saved view affiliated with change.

Cost Breakdown Structure (CBS) Register									
Drag columns here to group									
CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Total Cost (Forecast)	Cost Adjustment	Total Cost Adjustment Amount	Total Cost Adjustment Percent	Labor Cost Adjustment Amount	Labor Cost Adjustment Percent
3.5	REBAR	1.00	Lump Sum	\$2,618,414.00	<input type="checkbox"/>				
+ 3.5.1	Rebar	1.00	Lump Sum	\$2,512,724.00	<input type="checkbox"/>	\$0.00	0.00	\$0.00	0.00
+ 3.5.2	Post-Tension Tendons	1.00	Lump Sum	\$0.00	<input type="checkbox"/>	\$0.00	0.00	\$0.00	0.00
+ 3.5.3	Crane	1.00	Lump Sum	\$105,690.00	<input type="checkbox"/>	\$0.00	0.00	\$0.00	0.00
- 3.6	034100 - Precast Structural Concrete	2,800.00	SQFT	\$128,640.00	<input type="checkbox"/>				
+ 3.6.1	Precast Panels	27.00	EA	\$64,320.00	<input type="checkbox"/>	\$0.00	0.00	\$0.00	0.00
+ 3.6.2	Crane	1.00	Lump Sum	\$64,320.00	<input type="checkbox"/>	\$0.00	0.00	\$0.00	0.00
- 4	DIV 04 - MASONRY	1.00	Lump Sum	\$2,326,834.67	<input checked="" type="checkbox"/>				
+ 4.1	042000 - Unit Masonry	1.00	Lump Sum	\$2,326,834.67	<input checked="" type="checkbox"/>	\$1,708,826.67	1000.00	\$0.00	0.00
+ 4.1.1	CMU Walls	1.00	Lump Sum	\$1,879,709.33	<input checked="" type="checkbox"/>			\$0.00	0.00
+ 4.1.2	Precast Concrete Caps	1.00	Lump Sum	\$170,882.67	<input type="checkbox"/>	\$0.00	0.00	\$0.00	0.00
+ 4.1.3	Steel Embeds	1.00	Lump Sum	\$170,882.67	<input type="checkbox"/>	\$0.00	0.00	\$0.00	0.00
+ 4.1.4	Scaffolding	1.00	Lump Sum	\$105,360.00	<input type="checkbox"/>				
+ 4.1.4.1	Setup & Maintain Scaffolding	2.00	Month	\$105,360.00	<input type="checkbox"/>	\$0.00	0.00	\$0.00	0.00
+ 4.1.4.2	Additional Month	0.00	Month	\$0.00	<input type="checkbox"/>	\$0.00	0.00	\$0.00	0.00
+ 4.1.4.3	Netting on Exterior	0.00	Lump Sum	\$0.00	<input type="checkbox"/>	\$0.00	0.00	\$0.00	0.00
- 5	DIV 05 - METALS	1.00	Lump Sum	\$854,880.00	<input type="checkbox"/>				
261				\$20,381,473.74		\$1,733,328.68		\$17,567.79	\$176.78

Adjustment fields have been added to the CBS to view and modify the adjustment amount and adjustment percent without going into each individual cost item.

Any adjustment made to the Adjustment Amount fields on the CBS register will then have the Adjustment Percent field automatically calculated. Changes made to those fields will be highlighted in yellow signifying an adjustment has been made.

+	3.6.1	Precast Panels	27.00	EA	\$64,320.00	<input type="checkbox"/>	\$0.00	0.00	\$0.00	0.00
+	3.6.2	Crane	1.00	Lump Sum	\$64,320.00	<input type="checkbox"/>	\$0.00	0.00	\$0.00	0.00
-	4	DIV 04 - MASONRY	1.00	Lump Sum	\$2,326,834.67	<input type="checkbox"/>				
-	4.1	042000 - Unit Masonry	1.00	Lump Sum	\$2,326,834.67	<input type="checkbox"/>				
+	4.1.1	CMU Walls	1.00	Lump Sum	\$1,879,709.33	<input checked="" type="checkbox"/>	\$1,708,826.67	1000.00	\$0.00	0.00
+	4.1.2	Precast Concrete Caps	1.00	Lump Sum	\$170,882.67	<input type="checkbox"/>	\$0.00	0.00	\$0.00	0.00
+	4.1.3	Steel Embeds	1.00	Lump Sum	\$170,882.67	<input type="checkbox"/>	\$0.00		\$0.00	0.00
+	4.1.4	Scaffolding	1.00	Lump Sum	\$105,360.00	<input type="checkbox"/>				
+	4.1.4.1	Setup & Maintain Scaffolding	2.00	Month	\$105,360.00	<input type="checkbox"/>	\$0.00	0.00	\$0.00	0.00
+	4.1.4.2	Additional Month	0.00	Month	\$0.00	<input type="checkbox"/>	\$0.00	0.00	\$0.00	0.00
+	4.1.4.3	Netting on Exterior	0.00	Lump Sum	\$0.00	<input type="checkbox"/>	\$0.00	0.00	\$0.00	0.00
-	5	DIV 05 - METALS	1.00	Lump Sum	\$854,880.00	<input type="checkbox"/>				
261					\$20,381,473.74		\$1,733,328.68		\$17,567.79	

Other adjustments fields in the CBS register include the many adjustments fields that have been added to the **Billing Rates View**.

A new Saved view called **Cost Item Adjustment View** has been added to the Cost Breakdown Structure.

EXERCISE 5.3 – MANAGE COST ITEM DETAILS

In this exercise, practice adjusting your cost item details. Complete the following steps, using your Job:

- 1. Open the Cost Item record for cost item**2.2 Grading**.
- 2. From the **Cost Item Setup** tab, change the Composite Wage Scale to **80% Scale 1, 20%Scale 2**. Also adjust for every**10** hours worked, pay **10** hours.
- 3. Change the Default Shift Arrangements to **10** Work Hours per Shift, **1** Shift per Day, **5**Days per Week.
- 4. From the Man-Hour Factors tab, apply a Man-Hour Factor of **1.1** to the same cost item.
- 5. On the Notes tab, type **Added man-hour factor due to hard soil conditions**.

You should end up with similar results.

Cost Item Setup

Default Pay Rules

Scale 1: Scale 2: Scale 3:

Composite Wage Scale: 80.00 20.00 0.00

For every 10.00 hours worked, pay 10.00 hours

Default Shift Arrangements

Work Hours per Shift: Shifts per Day: Days per Week:

10.00 1.00 5.00

Production

	Duration Driven Resources	Factored Duration Driven Resources
→ Days	8.00	8.80
Shifts	8.00	8.80
Hours	80.00	88.00
Man-Hours	320.00	352.00
Equip-Hours	200.00	220.00
Acre/Day	1.25	1.14
Acre/Shift	1.25	1.14
Acre/Hour	0.13	0.11
Acre/Man-Hr	0.03	0.03
Acre/Equip-Hr	0.05	0.05

Notes

Added man-hour factor due to hard soil conditions.

Congratulations, you have completed this exercise!

LESSON 5 REVIEW

1. Resources, costs, and production can only be added to what type of cost item?
 - a. Superior
 - b. Terminal
 - c. Parent

2. What Cost Source is used for defining resources and production?
 - a. Plug
 - b. Detail
 - c. Quote

3. On the Cost Item Record, what tab is used for changing the cost item's Default Shift Arrangements?
 - a. Cost Item Setup
 - b. Production
 - c. Man-Hour Factors
 - d. Notes

LESSON 5 SUMMARY

As a result of this lesson, you can:

- Explain the Cost Breakdown Structure and its purpose
- Create cost items
- Add costs and production
- Manage cost item details

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LESSON 6 – INDIRECT COSTS

LESSON DURATION: 45 MINUTES

LESSON OBJECTIVES

After completing this lesson, you will be able to:

- Explain how indirect costs are defined in InEight Estimate
- Estimate default indirect cost items
- Estimate user-defined indirect cost items

LESSON TOPICS

6.1 INDIRECT COSTS OVERVIEW

Indirect costs such as the cost of prime bond, mobilization, or site supplies are typically overhead costs that are not directly associated with a particular project deliverable but contribute to the total cost of the project. However, indirect costs can be assigned to a pay items. This gives you the flexibility to more accurately control the cost basis of bid items and strategically price the work to maximize cost recovery and profit.

Once your direct costs are defined, you can add indirect project costs. Estimate provides two ways you can create indirect costs:

1. **Default Indirect Cost Items:** These are pre-built cost items created by InEight Estimate, located at the top of the CBS Register.

CBS Position Code	Description
[-]	JOB
+	Prime Bond
+	Price % Add-On
+	Job Financing
+	Indirect Cost Escalation
+	Direct Cost Escalation
+	Indirect Cost Add-On
+	Job Management & Equip...
+	General Expense
+	Direct Cost Add-On

2. **User-Defined Indirect Cost Items:** Any cost item you create in the CBS Register that is not assigned to a pay item is considered indirect cost.

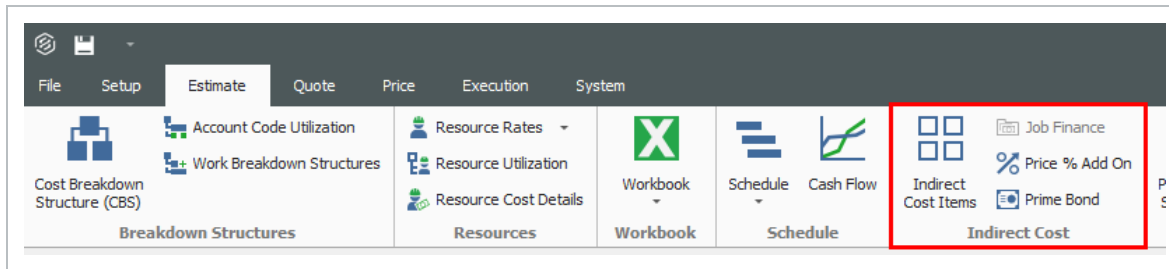
[-]	23	Job Overhead - Indirect ...	
+	23.1	Setup Yard	
+	23.2	Trailer Rent	
+	23.3	Utilities	

TIP

The Cost Breakdown Structure (CBS) located in the Library under the Estimate tab, Master Breakdown Structures section, controls which of the default indirect cost items to copy into new job folders.

6.1.1 NAVIGATION TO INDIRECT COSTS

From the Estimate tab of the InEight Estimate landing page, you can quickly access indirect costs from the Indirect Cost section.



- Select Indirect Cost Items to open the Cost Breakdown Structure Register filtered to only your indirect costs
- You can select Prime Bond, Price % Add On, and Job Financing to access those indirects

The following section takes a closer look at the default indirect cost items.

6.2 DEFAULT INDIRECT COST ITEMS

InEight Estimate contains various default cost items to help you calculate your indirect costs.

6.2.1 INDEPENDENT INDIRECT COST ITEMS

Independent indirect cost items function very much like the direct cost items you defined previously:

- Job Management & Equipment
- General Expense

6.2.1.1 JOB MANAGEMENT & EQUIPMENT

The sample Job Management & Equipment Record below shows that you can add resources and production just like in your direct cost items. Supervisory staff resources were added, and the production duration is set to 100 days.

Cost Breakdown Structure (CBS) RegisterCost Item Record

CBS Code:Optional Code:Description:Forecast (T/O) Qty:Unit of Measure:Unit Cost:Total Cost:Currency:

JOB MANAGEMETJob Management & Equipment

1.00

Lump Sum

\$157,096.28

\$157,096.28

U.S. Dollar

PI Assignment:PI Line Number:PI Description:

Cost Segment:Pay Quantity:Cost Source:Alternate:

Job Overhead

1.00

Detail

BASE

Cost Item Summary

Detail : \$157,096.28

Plug : \$0.00

Quote : \$0.00

Allocation

Drag columns here to groupFind: [Search For...]Saved views: Previous View

Row Number	Code	Description	Quantity	Unit of Measure	Unit Cost	Work Hours	Pay Hours	Waste % Add-on	Quantity (Less Waste)	Prod. Factor
1	LSS...	Project Superintend...	1.00	Each	\$42.53	800.00	800.00			
2	LSSEC	Secretary	1.00	Each	\$20.41	800.00	800.00			
3	LSPE	Project Engineer	1.00	Each	\$51.03	800.00	800.00			
4	ETST	Service Truck	1.00	Each	\$50.60	800.00	800.00			
5	ETPU	Pickup	2.00	Each	\$15.90	1,600.00	1,600.00			

Production

Duration Driven Resources

Factored Duration Driven Resources

Customize Display

Days:100.00

Shifts:100.00

Hours:800.00

Man-Hours:2,400.00

Equip-Hours:2,400.00

(x 1.0000)

100.0

100.0

800.0

2,400.0

2,400.0

The following Step by Step walks you through defining resources and costs for your Job Management & Equipment indirect cost item.

STEP BY STEP – ADD JOB MANAGEMENT & EQUIPMENT COSTS

1. In your job, from the Estimate landing page, select the **Cost Breakdown Structure (CBS)**.

2. Double-click on the row header of the **Job Management & Equipment** indirect cost item.

3. Add resources by clicking in the Code column and selecting the **Icon**.

4. Select the **Production** tab.

5. Enter a production value.

6. Click **OK** to close the record.

• For this example, we'll add the following resources and production:

Resource	Quantity
LSSEC Secretary	1
LSSUPT Project Superintendent	1
Cost Item Production Value (in Days)	
70	

Page 284 of 402

InEight Inc. | Release 25.7

STEP BY STEP – ADD GENERAL EXPENSE COSTS

1. From the Estimate tab, select the **Cost Breakdown Structure (CBS)**.
2. Right-click the row header of the **General Expense** row header and select **Open**.
 - You could add existing resources here, but in this case, you will create an ad hoc resource.
3. In the first blank row, enter a description, quantity and unit of measure.
4. Click on (highlight) that row, and then click the **Resource Employment Breakdown** tab.
5. Type a **numeric value** in the Undefined Supplies cost category.
6. Click **Ok** to close the record.
 - For this example, we'll add General Office Supplies, 1 Lump Sum, \$1,000 in the Supplies category.

The screenshot displays the 'General Expense' row in the 'Cost Breakdown Structure (CBS)' view. The row is highlighted, and the 'Resource Employment Breakdown' tab is active. The 'Resource Employment Breakdown' table shows a total of \$1,000.00, with 'Supplies' at \$1,000.00 and 'Undefined Supplies' at 1000.

Row Number	Code	Resource Assembly	Description	Quantity (Less Waste)	Waste % Add-on	Quantity	Unit of Measure
1			General Office Supp...	1.00	0.00	1.00	Lump Sum

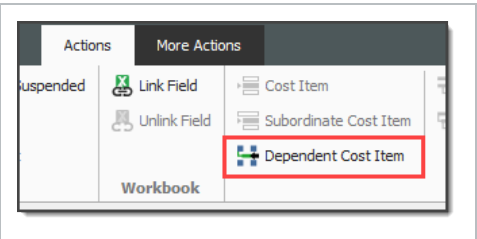
Cost Category	Scale 1
Total	\$1,000.00
Labor	\$0.00
Owned Equipment	\$0.00
Rented Equipment	\$0.00
Supplies	\$1,000.00
Undefined Supplies	1000

6.2.2 DEPENDENT INDIRECT COST ITEMS

The other default indirect cost items are **dependent indirect cost items**, meaning their costs depend on other costs, prices or hours. They include:

- Direct and Indirect Cost Add-On
- Direct and Indirect Cost Escalation
- Prime Bond
- Price % Add-On
- Job Financing

- Man-Hour Add-On



It's possible to assign any assigned or dependent cost Item to any of the 3 cost segments and provides greater control over where costs exist in the Price Breakdown Structure (PBS).

Cost Breakdown Structure (CBS) Register			Pay Item & Proposal Register		
Drag columns here to group					
CBS Position Code	Description	Cost Segment	Pay Item Assignment	Pay Item Position Code	
	JOB				
	Prime Bond	Business Over ...			
+	Price % Add-On	Description			
+	Job Financing	Business Overhead			
+	Indirect Cost Escalation	Direct Cost			
+	Direct Cost Escalation	Job Overhead			
+	Indirect Cost Add-On				
+	Mobilization				
1	SITEWORK & ROADWAY				
+ 1.1	Mobilization				
+ 1.2	Clearing & Grubbing	Direct Cost	201 0102	1.2	
1.3	Unclassified Excavation	Direct Cost	202 0183	1.3	
+ 1.3.1	Excavation	Direct Cost	202 0183	1.3	

6.2.2.2 DEFAULT DEPENDENT COST ITEM DELETION

NOTE

If you need to use additional dependent cost items, you can create your own, but you must delete all the existing default dependent cost items first.

The following steps walk you through deleting your existing default indirect costs so you can create your own.

STEP BY STEP – DELETE EXISTING DEFAULT DEPENDENT COST ITEMS

1. From the Estimate tab, select **Cost Breakdown Structure (CBS)**.
2. Select an **Indirect Cost Item** by clicking on its row header.
3. Press and hold the Ctrl or Shift key to select multiple indirect cost items.
4. Right-click on the **selection** and select **Delete**.
5. Select **Yes** to confirm you want to delete the selected cost items.

6.2.2.3 PRIME BOND

The following steps walk you through adding and defining your prime bond for the job.

STEP BY STEP – DEFINE PRIME BOND

1. From the Estimate tab, select **Cost Breakdown Structure (CBS)**.
2. Right-click on the **row header** for any cost item and insert **Dependent cost Item**.
3. On the resulting Attention prompt, select **Based on Bond Table**.
4. Click **OK**.
5. Right-click on the Prime Bond row header and select **Open**.
6. Use the Table Name drop-down to choose a table (e.g., Example: General Construction).
7. Click **OK** to close the record.

MULTIPLE BOND RATE DEPENDENT ITEMS

For certain projects, it may be desirable to calculate costs for bond or insurance premiums based upon multiple different rate tables. It is now possible to add multiple bond/rate table based dependent items in the CBS.

For example, in addition to having a prime bond, the job may also require insurance coverage where the premium is calculated using a rate table-based approach. This can now be accomplished by adding another Bond/Rate-table based dependent cost item to the job.

Cost Breakdown Structure (CBS) Register

Drag columns here to group

CBS Position Code	Description	Optional Code	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Allocated	Currency	Hours (Duration driven)
000	JOB		20.00	Mile	\$277,616.11	\$5,552,322.14	<input checked="" type="checkbox"/>	U.S. Dollar	5,492.23
+	Prime Bond	PRIME BOND	1.00	Lump Sum	\$42,305.50	\$42,305.50	<input type="checkbox"/>	U.S. Dollar	
+	Insurance	INSURANCE	1.00	Lump Sum	\$140,027.49	\$140,027.49	<input type="checkbox"/>	U.S. Dollar	
+	Job Financing	FINANCE EXPENSE	1.00	Lump Sum	\$29,842.32	\$29,842.32	<input type="checkbox"/>	U.S. Dollar	
+	Indirect Cost Escalation	INDIRECT COST ESCALATION	1.00	Lump Sum	\$2,131.11	\$2,131.11	<input type="checkbox"/>	U.S. Dollar	
+	Direct Cost Escalation	DIRECT COST ESCALATION	1.00	Lump Sum	\$15,048.80	\$15,048.80	<input type="checkbox"/>	U.S. Dollar	
+	Indirect Cost Add-On		1.00	Lump Sum	\$5,823.31	\$5,823.31	<input type="checkbox"/>	U.S. Dollar	
+	Direct Cost Add-On	DIRECT COST ADD-ON	1.00	Lump Sum	\$100,820.54	\$100,820.54	<input type="checkbox"/>	U.S. Dollar	
1	SITEWORK & ROADWAY	200	1.00	Each	\$2,464,161.56	\$2,464,161.56	<input type="checkbox"/>	U.S. Dollar	2,158.33
+ 1.1	Mobilization	641 0100	1.00	Lump Sum	\$11,909.51	\$11,909.51	<input type="checkbox"/>	U.S. Dollar	80.00
+ 1.2	Clearing & Grubbing	201 0102	10.00	Acre	\$3,918.50	\$39,184.97	<input type="checkbox"/>	U.S. Dollar	80.00
+ 1.3	Unclassified Excavation	202 0183	50,000.00	Cubic Yard	\$4.68	\$233,915.81	<input type="checkbox"/>	U.S. Dollar	291.67

DELETING BOND TABLES

Delete bond tables that are not applicable to your estimate by selecting them and then clicking the **Delete** button. You can customize the Bond Table window to only view the tables that are relevant to your estimate from the Table Name drop-down list.

Bond Table

Identification

Table Name: EXAMPLE: GENERAL CONSTRUCTION

Last Maintenance: Table Name

Bond Rate Layers

From

EXAMPLE: PAVING

EXAMPLE: PIPE

EXAMPLE: UNDERGROUND UTILITIES

No Bond Required

\$10,000,000.01

\$20,000,000.01

\$40,000,000.01

\$20,000,000.00

\$40,000,000.00

\$80,000,000.00

\$1,000

10.80000

8.20000

7.00000

5.00000

4.80000

3.50000

3.00000

Bond Table

Cost Item Setup

Notes

Schedule

OK

Cancel

< Prev

Next >

6.2.2.4 PRICE % ADD-ON

The following steps walk you through defining the Price % Add-On.

STEP BY STEP – DEFINE A PRICE % ADD-ON

- 1. From the Cost Breakdown Structure (CBS) Register, right-click on the **row header** for any cost item and select **Insert Dependent Cost Item**.
- 2. On the resulting Attention prompt, select **Based on Job's Price**.

Attention

Choose what type of Dependent Cost Item to add:

☒

Based on Job's Price

☐

Based on Job's Finance Cost

☐

Based on Bond Table

☐

Based on Direct Costs

☐

Based on Indirect Costs

☐

Based on CBSMan Hours

☐

Based on CBSEquipment Hours

☐

Based on Resource Utilization

☐

Based on Assembly Utilization

OK

Cancel

- 3. Click **OK**.
- 4. Double-click on the **Price % Add On** row header to open the record.

CBS Position Code	Description	Optional Code
	JOB	
+	Job Management & Equipment	JOB MANAGEMENT & E...
+	General Expense	GENERAL EXPENSE
+	Prime Bond	PRIME BOND
+	Price % Add-On	PRICE % ADD-ON
+	1 Mobilization	1000

5. The Price % Add-on Record opens to the Description tab. Type a **description** in the Description field and enter a **numeric value** for rate.

Cost Breakdown Structure (CBS) Register

Price % Add-On Record

CBS Code:

Description:

Price % Add-On

Description

Dependency

Drag columns here to group

	Description	Rate	Account Code	
	Office Overhead	4.00		

6. Click **OK** to close the record.
- For this example, we'll enter a description of Office Overhead and a rate of 4%.

6.2.2.5 DIRECT COST ADD-ON

The following steps walk you through creating a Direct Cost Add-On dependent cost item.

STEP BY STEP – DEFINE A DIRECT COST ADD-ON

- From the Cost Breakdown Structure (CBS) Register, right-click on the **row header** for any cost item and select **Insert Dependent Cost Item**.
- On the resulting Attention prompt, select **Based on Direct Costs**.
- Click **OK**.
- Double-click on the **Direct Cost Add-On** row header.
- On the Description tab, type a **description** in the Description column.

Cost Breakdown Structure (CBS) Register **Direct Cost Add-On Record** *

CBS Position Code: Description: Direct Cost Add-On

Description	Dependency	Cost Categorization	Allocation
Drag columns here to group			
Description	Curre...	Total Cost (Forecast)	
Small Tools			

6. Press the **Tab** key (you can define additional rows for other add-on costs as needed).
7. Click on the **Dependency** tab to see what contributes to your subject cost.
8. For this activity, leave the default (lower) button selected.

Toggle Include All (Affects displayed items only)

☐ Define the Subject Cost by viewing all available items and clicking the Include box for the desired items
☒ Define the Subject Cost using column filtering (all current and future items that match the filter will be included automatically)

9. On the Cost Breakdown tab on the right, add an add-on rate (percentage) or cost at any of the cost category levels you need.
 - This updates the Total Cost (Forecast) of your item on the Description tab
10. Click **OK** to close the record.
 - For this example, we'll create a new Direct Cost Add-On, giving it a description of Small Tools with a rate of 10% on the Labor cost category

CBS Position Code: Description: Total Cost: Currency: Alternate:

Direct Cost Add-On \$5,701.36 U.S. Dollar BASE

PI Assignment: PI Line Number: PI Description: Cost Segment: Pay Quantity:

Job Overhead 1.00

Description	Currency	Total Cost (Forecast)
Small Tools	U.S. Dollar	\$5,701.36

Cost Breakdown

Cost Category	Subject Cost	Rate	Cost
Total	\$99,107.22	5.75	\$5,701.36
Labor	\$57,013.62	10.00	\$5,701.36
Owned Equipment	\$38,555.52	0.00	\$0.00
Rented Equipment	\$0.00	0.00	\$0.00
Supplies	\$0.00	0.00	\$0.00
Materials	\$3,276.00	0.00	\$0.00
Subcontract	\$0.00	0.00	\$0.00
Fees	\$262.08	0.00	\$0.00
Allowance	\$0.00	0.00	\$0.00
Custom Category1	\$0.00	0.00	\$0.00
Undefined	\$0.00	0.00	\$0.00

6.2.2.6 REPOSITIONING DEPENDENT COST ITEMS

Repositioning dependent cost items creates a simpler way to manage the hierarchy of your project by placing items of more importance ahead of other line items.

Since dependent cost items can now be repositioned, a Position Code field has been added with the functionality similar to column remaining the same. The below listed dependent cost item fields are now exposed in the CBS register so you can more easily see the various percentages used in dependent items.

- Subject Cost
- Subject Cost Rate
- Subject Billing Amount
- Subject Billing Rate

These columns can also be found in the new saved view **Bid Review**.

CBS Position Code	Description	Optional Code
☐	JOB	
+	Prime Bond	PRIME BOND
+	Price % Add-On	PRICE % ADD-ON
+	Job Financing	FINANCE EXPENSE
+	Indirect Cost Escalation	INDIRECT COST ESCALATION
+	Direct Cost Escalation	DIRECT COST ESCALATION
+	Indirect Cost Add-On	INDIRECT COST ADD-ON
+	Job Management & Equipment	JOB MANAGEMENT & EQUIPMENT
+	General Expense	GENERAL EXPENSE
+	Direct Cost Add-On	DIRECT COST ADD-ON
+ 1	Mobilization	641 0100

+ 24.1.2	Day Two	
+ 25	Prime Bond	PRIME BOND
+ 26	Price % Add-On	PRICE % ADD-ON
+ 27	Job Financing	FINANCE EXPENSE
+ 28	Indirect Cost Escalation	INDIRECT COST ESCALATION
+ 29	Direct Cost Escalation	DIRECT COST ESCALATION
+ 30	Indirect Cost Add-On	INDIRECT COST ADD-ON
+ 31	Job Management & Equipment	JOB MANAGEMENT & EQUIPMENT
+ 32	General Expense	GENERAL EXPENSE
+ 33	Direct Cost Add-On	DIRECT COST ADD-ON

RELEVANT LINKS

Video - Classifying Direct & Indirect Costs

6.3 USER-DEFINED INDIRECT COST ITEMS

You may prefer to create your own indirect cost items. You create user-defined indirect cost items the same way you create direct cost items. The only difference is that your indirect cost items will not be assigned to pay items. One advantage of creating your own indirect cost items is the ability to create a parent-child structure for your indirect costs.

Here is an example of user-defined indirect cost items, expanded to show their employed resources:

CBS Position Code		Description	Forecast (T/O) Quantity		Unit of Measure		Unit Cost		Total Cost (Forecast)
5		Indirect Cost	1.00		Each		\$10,584.36		\$10,584.36
- 5.1		Head Office	1.00		Each		\$370.32		\$370.32
	...	Description	Quantity	Unit of Measure	Work Hours	Pay Hours	Unit Cost	Total Cost (Forecast)	
→	+	1 Head Office Project ...	1.00	Each	8.00	8.00	\$46.29	\$370.32	
- 5.2		Field Office	1.00		Each		\$1,775.04		\$1,775.04
	...	Description	Quantity	Unit of Measure	Work Hours	Pay Hours	Unit Cost	Total Cost (Forecast)	
↗	+	1 Field Office Clerk	1.00	Each	4.00	4.00	\$38.00	\$152.00	
↗	+	2 Field Office Safety M...	1.00	Each	8.00	8.00	\$62.38	\$499.04	
	+	3 Field Office Site Supe...	1.00	Each	16.00	16.00	\$70.25	\$1,124.00	
- 5.3		Site Facilities	1.00		Each		\$905.00		\$905.00
	...	Description	Quantity	Unit of Measure	Work Hours	Pay Hours	Unit Cost	Total Cost (Forecast)	
→	+	1 Field Office Telephone	0.50	Month			\$250.00	\$125.00	
	+	2 Field Office Trailer	1.00	Each	0.00	0.00	\$5.94	\$0.00	
	+	3 Pick Up Truck	1.00	Each	80.00	80.00	\$9.75	\$780.00	
+ 5.4		Misc. Expenses	1.00		Each		\$2,765.00		\$2,765.00
+ 5.5		Supervision	1.00		Each		\$4,769.00		\$4,769.00

STEP BY STEP – ADD USER-DEFINED INDIRECT COST ITEMS

Let's walk through a specific scenario for this step by step.

1. At the bottom of your CBS, create an indirect cost item called Job Overhead with a Forecast (T/O) Quantity of **1** and Unit of Measure of **Each**.
2. Add two **subordinates** under the new cost item named Job Trailer and Utilities. Job Trailer is **1 Each** but change Utilities to **1 Lump Sum**.
3. Open the Job Trailer cost item by double-clicking on the row header.
 - Assuming there is no Job Trailer in our Resource Rate Register, you will create this resource "on the fly".
4. In the Detail grid, click on the **Resource Register** icon in the Code field as if you were going to select from the Resource Rate Register.
5. On the Resource Rate Register, click the **Rented Construction Equipment** tab.

6. Right-click on one of the **Line Items** and select **New** to add a new resource.
7. Enter a Resource Code of **RJT** and description of **Job Trailer**.
8. In the Amount column enter **25** for the Rented Equipment category.
9. Click **OK** to close the Resource Rate Record.
10. Select the **new resource** you created, then click **OK** to return to the cost item record.
11. On the cost item record, adjust the Job Trailer quantity to **2**.
12. On the Production tab, enter **70** days.
13. Click **OK** to close the record.
14. On the CBS register, select the **Utilities** cost item by double-clicking on the row header.
15. Create an ad hoc resource on this cost item called **Electricity**, which will be 1 Lump Sum.
16. Finally, go to the Resource Employment Breakdown tab and enter **1500** in the Custom Category1 row.
17. Click **OK** to close the record.

3		Job Overhead				1.00		Each		\$31,740.00		\$31,740.00
- 3.1		Job Trailer				1.00		Each		\$30,240.00		\$30,240.00
	Row Number	Code	Resource Assembly	Description	Quantity (Less Waste)	Waste % Add-on	Quantity	Unit of Measure	Work Hours	Pay Hours	Unit Cost	Total Cost (Forecast)
→	+	1	RJT	Job Trailer			2.00	Each	1,1...	1,1...	\$27.00	\$30,240...
- 3.2		Utilities				1.00		Lump Sum		\$1,500.00		\$1,500.00
	Row Number	Code	Resource Assembly	Description	Quantity (Less Waste)	Waste % Add-on	Quantity	Unit of Measure	Work Hours	Pay Hours	Unit Cost	Total Cost (Forecast)
→	+	1		Electricity	1.00	0.00	1.00	Lump ...			\$1,500...	\$1,500.00

6.4 COST ALLOCATION

The **Cost Item Record - Allocation** tab lets you to spread costs from a single Cost Item Record to one or more other cost items in the Cost Breakdown Structure (CBS) Register.

- **Allocation Item** - The cost item to be allocated, where you define the quantities, resource employments and the logic that determines how to allocate the item throughout the bid.
- **Allocation Target** - A cost item to be the recipient of allocated cost, as defined within the Allocation Item. There may be one or many Allocation Targets for one Allocation Item.

- **Distribution** - A read-only cost item in the CBS representing an Allocation Target's proportional share of the Allocation Item.

You can choose from several methods to determine specifically where and how much cost to spread:

- **Quantity** - Specify the amount of the Allocation Item to be spread to each Allocation Target.
- **Proportionately based on another field** - Allocate proportionately by one of many available cost item values, usually based on time or cost.
- **Percentage** - Specify the percentage of the Allocation Item to spread to each Allocation Target.
- **Unit Cost** - Use the unit cost from the Allocation Item and the quantity of each Allocation Target to drive the Forecast (T/O) Quantity of the Allocation Item.

Cost Item Allocation is a good means of spreading costs throughout a bid for the purpose of determining appropriate bid prices.

NOTE

Only Level 1 cost items can be allocated, including Add-On and Escalation dependent cost items. A subordinate cost item cannot be allocated, and a cost item that is assigned to a pay item cannot be allocated.

6.4.1 COST ALLOCATION

With Cost Item Allocation, you can track the cost of one broad cost item by distributing the cost of that item to other cost items, so that the cost can be tracked on a more detailed level. This gives better visibility into the cost that makes up an item. For example, you can spread ST&S from one cost item to multiple cost items that will use ST&S.

Imagine that a large portion of your scope of work for the job you are bidding has concrete. You face the options of batching your own raw materials or purchasing the materials from a supplier. You can use cost allocation to create the cost of a batch plant and allocate it to different items, and then compare this unit cost to the unit cost of purchasing the materials from a supplier.

The Allocation tab allows you to spread costs from an Allocation Item to one or more Allocation Target (s).

NOTE

In the Allocation Target list, the **[Unit of Measure] Quantity** column caption displays the Unit of Measure of the Allocation Item. For instance, if the Allocation Item's Unit of Measure is **Cubic Yards (CY)**, then the caption displayed for this column is **CY Quantity**.

A Distribution cost item is created as a read-only subordinate cost item under each Allocation Target. It is copied proportionally with the quantity/cost defined to each different item in CBS.

6.4.2 VIEW FILTER EXCLUDES COST ITEM ALLOCATION DETAILS

A View Filter option is added to show only the level 1 cost item distribution in the allocation destinations to provide you with a clear and comprehensive view of the CBS register, especially when there are many allocations. When you are allocating cost items, the allocations are created in the destination cost item by creating a copy of the entire allocated cost items structure. This filter allows you to simplify the view by displaying only the parent level allocation cost item.

The screenshot displays the 'Cost Breakdown Structure (CBS) Register' window. The 'Filter' dropdown menu is open, showing various filtering options. The 'Filter Allocation Distributions Subordinates' option is highlighted with a red box. The main table lists cost items with columns for Position Code, Description, Optional Code, Forecast (T/O) Quantity, Unit of Measure, Unit Cost, Total Cost (Forecast), Allocated, Currency, and Hours (Duration driven). The table is organized into a hierarchy starting with 'JOB' and 'SITEWORK & ROADWAY'.

CBS Position Code	Description	Optional Code	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Allocated	Currency	Hours (Duration driven)
1	1.1 Mobilization	641 0100	1.00	Lump Sum	\$11,909.51	\$11,909.51		U.S. Dollar	80.0
1.1	1.2 Clearing & Grubbing	201 0102	10.00	Acre	\$3,918.50	\$39,184.97		U.S. Dollar	80.0
1.1	1.3 Unclassified Excavation	202 0183	50,000.00	Cubic Yard	\$4.68	\$233,915.81		U.S. Dollar	291.6
1.1	1.3.1 Excavation	1.3.1	50,000.00	Cubic Yard	\$3.00	\$149,922.88		U.S. Dollar	125.0
1.1	1.3.2 Embankment	1.3.2	50,000.00	Cubic Yard	\$1.68	\$83,992.94		U.S. Dollar	166.6
1.1	1.4 Aggregate Base	303 5912	45,000.00	Ton	\$1,487.10	\$66,919,557.30		U.S. Dollar	519,564.0
1.1	1.4.1 Furnish & Haul Base Material	1.4.1	45,000.00	Ton	\$11.54	\$519,513.30		U.S. Dollar	360.00
1.1	1.4.2 Finegrade Subgrade	1.4.2	400,000.00	Square Yard	\$100.00	\$40,000,000.00		U.S. Dollar	168,757.77

6.4.3 COST ALLOCATION TO BY UNIT COST

Having an under allocation or over allocation is ok, but it can be fixed by updating the Forecast (T/O) Quantity of the **Concrete Batch Plant**. To do this, change the cost allocation to **by Unit Cost**.

6.5 DEPENDENT COST ITEM ALLOCATION

When allocating cost for a dependent cost item, the calculation of the cost item's subject cost aligns with the allocation target values (such as values based on quantity, percentage, or unit cost). The target values are the owner's target values. This allows you to better manage allocation values.

When you allocate costs for a dependent cost item that defines its subject costs from other cost items that include allocation from other cost items and select the option *Use owner's quantities to calculate cost*, the subject cost calculation is based on how the cost items are currently allocated. In other words, it includes the distributed costs from the allocated cost item.

Cost Breakdown Structure (CBS) Register **Direct Cost Add-On Record**

CBS Position Code: Description: Total Cost: Currency: Alternate: \$0.00 U.S. Dollar BASE

PI Assignment: PI Line Number: PI Description: Cost Segment: Pay Quantity: Job Overhead 1.00

Description Dependency Cost Categorization Allocation

Drag columns here to group

CBS Position Code	Description	Pay Quantity	Include	Currency	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	To (F)
	JOB			U.S. Dollar	20.00	Mile	\$288,071.25	
	Indirect Cost Markup	1.00		U.S. Dollar	1.00	Lump Sum	\$8,764.81	
	Direct Cost Markup	1.00		U.S. Dollar	1.00	Lump Sum	\$641,014.37	
	Prime Bond	1.00		U.S. Dollar	1.00	Lump Sum	\$46,691.21	
	Price % Add-On	1.00		U.S. Dollar	1.00	Lump Sum	\$291,520.92	
	Job Financing	1.00		U.S. Dollar	1.00	Lump Sum	\$0.00	
	Indirect Cost Escalation	1.00		U.S. Dollar	1.00	Lump Sum	\$0.00	
	Direct Cost Escalation	1.00		U.S. Dollar	1.00	Lump Sum	\$0.00	
	Indirect Cost Add-On	1.00		U.S. Dollar	1.00	Lump Sum	\$0.00	
	Job Management & Equip...	1.00		U.S. Dollar	1.00	Lump Sum	\$157,096.28	
	General Expense	1.00		U.S. Dollar	1.00	Lump Sum	\$4,200.00	
	Direct Cost Add-On	1.00		U.S. Dollar	1.00	Lump Sum	\$0.00	
→ 1	Mobilization	1.00		U.S. Dollar	1.00	Lump Sum	\$11,909.51	
2	Clearing & Grubbing	10.00		U.S. Dollar	10.00	Acre	\$3,918.50	
3	Unclassified Excavation	50,000.00		U.S. Dollar	50,000.00	Cubic Yard	\$4.68	
3.1	Excavation	50,000.00		U.S. Dollar	50,000.00	Cubic Yard	\$3.00	
3.2	Embankment	50,000.00		U.S. Dollar	50,000.00	Cubic Yard	\$1.68	
Σ	0				Σ	0.00		

104

Define Subject Cost using the Include checkbox for the desired items ☒ Toggle Include All

Define Subject Cost using column filtering

- All current and future items that match the filter will be included automatically.
- The filter is evaluated using the default currency and UM View Mode.
- Filtering may not be supported on all available columns.

Cost Item Setup

Properties

Account Code: Cost Curve: Linear Tag 1: Tag 2: Tag 3: Phase Code: Suspend: ☐

Execution

Allow As-Built: None

Detail Method

☒ Cost category breakdown ☒ Use owner's quantities to calculate cost ☐ Use takeoff quantities to calculate cost

Subject cost based on: Default

Security

Last Changed By: Julio Salguero
Last Changed On: 7/29/2025 1:28:58 PM

Cost Breakdown Billing Breakdown Cost Item Setup Notes Schedule

OK Cancel < Prev Next >

6.5.1 TURNING OFF COST ALLOCATION

If determined that you no longer want to spread the cost of an allocated item, you can turn off cost allocation for that cost item. To turn off cost allocation, in the cost item record's Allocation tab, deselect the **Allocate this Item's Cost** check box. The logic that you created to spread the costs are retained, so you can easily select it again later.

NOTE

Distributions cannot exist in the CBS when a job is published for Job Tracking. To remove distributions, either break the Cost Allocation link or deselect the **Allocate this Item's Cost** check box on the **Cost Item Record - Allocation** tab.

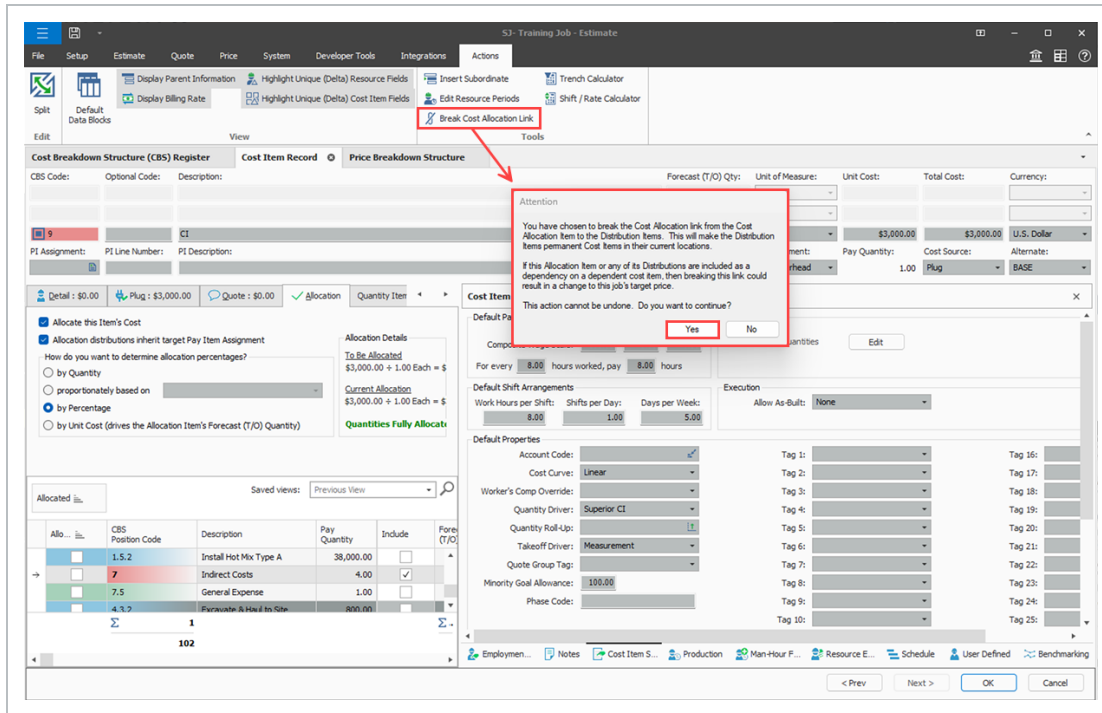
6.5.2 BREAK COST ALLOCATION LINK

You can break a cost allocation link and make a distribution be a permanent part of the CBS and permit its costs and quantities to be directly editable under the cost items to which it has been distributed.

Breaking the cost allocation link breaks the link from the cost allocation item to the distribution items, making the distribution items permanent cost items in their current locations. If the allocation item or any of its distributions are included as a dependency on a dependent cost item, then breaking the link could result in a change to the job's target price. The action cannot be undone.

BREAKING A COST ALLOCATION LINK

1. In the CBS, open the cost item record.
2. In the Actions tab of the record, click **Break Cost Item Allocation Link**.
3. In the Attention dialog box, click **Yes**.



6.5.3 PAY ITEM ASSIGNMENT FOR ALLOCATION DISTRIBUTION

In locked jobs, the *Allocation distributions inherit target Pay Item Assignment* option is automatically selected and cannot be changed. This is normal Estimate behavior for locked jobs.

In a job that is unlocked, you have the option to select the **Allocation distributions inherit target Pay Item Assignment** check box to use the same allocation distribution for the cost item's costs anytime the cost item is copied and added to a job.

Cost Breakdown Structure (CBS) Register

Cost Item Record

CBS Code:

Optional Code:

Description:

Forecast (T/O) Qty:

Unit of Measure:

Unit Cost:

Total Cost:

Currency:

9

NAR

CI

1.00

Each

\$3,000.00

\$3,000.00

U.S. Dollar

PI Assignment:

PI Line Number:

PI Description:

Cost Segment:

Pay Quantity:

Cost Source:

Alternate:

Job Overhead

1.00

Plug

BASE

Detail : \$0.00

Plug : \$3,000.00

Quote : \$0.00

Allocation

Quantity Items

Allocate this Item's Cost

Allocation distributions inherit target Pay Item Assignment

How do you want to determine allocation percentages?

by Quantity

proportionately based on

by Percentage

by Unit Cost (drives the Allocation Item's Forecast (T/O) Quantity)

Allocation Details

To Be Allocated

\$3,000.00 ÷ 1.00 Each = \$3,000.00/Each

Current Allocation

\$3,000.00 ÷ 1.00 Each = \$3,000.00/Each

Quantities Fully Allocated

Allocated

Saved views: Previous View

Allo	CBS Position Code	Description	Pay Quantity	Include	Forecast (T/O) Quantity
	3.4.5	Paint Top Coat	25,000.00		25,000
	1.4.3.3	Place Aggregate Base	40,888.89		46,000
	4.1.3.1	Install Recovery System	1.00		
	1.5.2	Install Hot Mix Type A	38,000.00		35,000
	7	Indirect Costs	4.00		
	7.5	General Expense	1.00		
	4.3.2	Excavate & Haul to Site	800.00		800
	3.3.1.3	Retaining Wall Wall	400.00		50
	5.1	Toll Booth	1.00		
	7.1	Setup Yard	1.00		
	5.1.4	Concrete Masonry Units	1.00		
			102		102

Cost Item Setup

Default Pay Rules

Composite Wage Scale: 100.00 0.00 0.00

For every 8.00 hours worked, pay 8.00 hours

Default Shift Arrangements

Work Hours per Shift: 8.00 Shifts per Day: 1.00 Days per Week: 5.00

Period Quantities

Use Period Quantities

Execution

Allow As-Built: None

Default Properties

Account Code: [selected]

Cost Curve: Linear

Worker's Comp Override: [selected]

Quantity Driver: Superior CI

Quantity Roll-Up: [selected]

Takeoff Driver: Measurement

Quote Group Tag: [selected]

Minority Goal Allowance: 100.00

Phase Code: [selected]

When man-count changes: Change UM / Man-Hour

Suspend: [checkbox]

Tag 1: [selected] Tag 16: [selected]

Tag 2: [selected] Tag 17: [selected]

Tag 3: [selected] Tag 18: [selected]

Tag 4: [selected] Tag 19: [selected]

Tag 5: [selected] Tag 20: [selected]

Tag 6: [selected] Tag 21: [selected]

Tag 7: [selected] Tag 22: [selected]

Tag 8: [selected] Tag 23: [selected]

Tag 9: [selected] Tag 24: [selected]

Tag 10: [selected] Tag 25: [selected]

Tag 11: [selected]

Tag 12: [selected]

Tag 13: [selected]

Tag 14: [selected]

Tag 15: [selected]

Security

Last Changed By: Julio Salguero

Last Changed On: 8/5/2025 2:04:14 PM

Employee...

Notes

Cost Item...

Production

Man-Hour...

Resource...

Schedule

User Defi...

Benchmark...

< Prev

Next >

OK

Cancel

EXERCISE 6.1 – DEFINE INDIRECT COSTS

In this exercise, you will practice entering Indirect Costs. Complete the following steps, using your Job:

- 1. Double click on the **Price % Add On** row header.
- 2. You already have Office Overhead as your first line item. In the next blank row type **Corporate Insurance** in the Description field and enter a rate of **.10**.
- 3. Click **OK** to close the record.
- 4. Double click on the **Direct Cost Add-On** row header.
- 5. You already have Small Tools as your first line item. On the Description tab, type **Safety & Training** in the next blank row’s Description field, then press **Tab**.
- 6. The Dependency Cost Breakdown appears on the right. Enter a rate of **5** for Labor Costs only.
- 7. Click **OK** to close the record.

You should end up with similar results like below:

Cost Breakdown Structure (CBS) Register

Price % Add-On Record

CBS Code: Description: Total Cost: \$9,082.87
Price % Add-On

Description Dependency

Drag columns here: [Bigdu] [Search For...] Saved views: Previous View

Description	Rate	Account Code
→ Office Overhead	4.00	
Corporate Insurance	0.10	

Cost Item Setup

Properties

Currency: U.S. Dollar

Account Code:

Cost Curve: Linear

Tag 1:

Cost Breakdown Structure (CBS) Register

Direct Cost Add-On Record

CBS Position Code:

Description:

Direct CostAdd-On

Total Cost: \$8,845.47

Alt: BASE

Description

Dependency

Cost Categorization

Allocation

Drag & Drop

[Search For...]

Saved views: Previous View

Description	Curre...	Total Cost (Forecast)
Small Tools	U.S. Dollar	\$5,896.98
Safety & Training	U.S. Dollar	\$2,948.49

Cost Breakdown

Cost Category	Subject Cost	Rate	Cost
Total	\$130,759.83	2.25	\$2,948.49
Labor	\$58,969.83	5.00	\$2,948.49
Owned Equipment	\$68,251.92	0.00	\$0.00
Rented Equipment	\$0.00	0.00	\$0.00
Supplies	\$0.00	0.00	\$0.00
Materials	\$3,276.00	0.00	\$0.00
Subcontract	\$0.00	0.00	\$0.00
Fees	\$262.08	0.00	\$0.00
Allowance	\$0.00	0.00	\$0.00
Custom Category1	\$0.00	0.00	\$0.00
Undefined	\$0.00	0.00	\$0.00

Congratulations, you have completed this exercise!

LESSON 6 REVIEW

1. Default indirect costs are pre-built _____ created by InEight Estimate, located within the CBS Register.
 - a. billing rates
 - b. cost items
 - c. pay items
2. By default, any cost item you create in the CBS Register that is not assigned to a pay item is considered indirect cost.
 - a. True
 - b. False
3. The cost segment field in the CBS is used to indicate:
 - a. Whether your costs will be considered job overhead, business overhead, or direct cost.
 - b. The source of your costs (Detail, Plug or Quote).
 - c. What pay item your cost item is assigned to.

LESSON 6 SUMMARY

As a result of this lesson, you can:

- Explain how indirect costs are defined in InEight Estimate
- Estimate default indirect cost items
- Estimate user-defined indirect cost items

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LESSON 8 – QUOTE MANAGEMENT

LESSON DURATION: 60 MINUTES

LESSON OBJECTIVES

After completing this lesson, you will be able to:

- Create and publish RFQs
- Define quote pricing
- Compare and award quotes
- Create and analyze scope items

LESSON TOPICS

8.1 QUOTE MANAGEMENT OVERVIEW

8.1.1 QUOTE MANAGEMENT WORKFLOW

When you make the decision to send out RFQs (Requests for Quote), as the estimator you will outline the specifications for the request, select the vendors you wish to contact, and issue the request for quotes.

When you receive quotes back from vendors, you can enter their pricing into InEight Estimate, where you can compare them, award them, and update your CBS costs in one fluid process without the need to re-enter data in multiple locations. InEight Estimate lets you enter multiple vendor quotes to enable price comparison.

TIP

Awarding a quote in InEight Estimate does not mean the vendor is awarded the contract, but rather that their price is selected as the carrying cost in the bid.

InEight Estimate provides a built-in workflow for managing your quotes, consisting of three steps:

1. Creating and publishing Requests for Quote (RFQs)
2. Updating quotes with vendor/subcontractor pricing
3. Comparing and awarding quotes

InEight Estimate has a separate form to manage each step:

1. Request for Quote (RFQ) Register
2. Quote Register
3. Quote Comparison & Award



8.1.2 QUOTES AND QUOTE GROUPS

Typically, an estimate contains two types of quotes:

1. Quotes for resources (materials, equipment) purchased or rented from suppliers.
2. Quotes for subcontracted work.

InEight Estimate, quotes from suppliers are managed at the resource level. In other words, you can use material resources to represent the items purchased from the supplier.


For the cost items in your project that you plan to subcontract, you can manage quotes at the cost item level, using the cost items themselves as the descriptions on the quote request.

You can use Quote Groups to group together multiple resources or cost items that will be sent in an RFQ package. Using quote group tags can save a great deal of time generating packages of items to request quotes for.

8.1.2.1 RESOURCE LEVEL QUOTE GROUPS


When sending out quotes, you may want to organize your resources into groups based on the type of material, such as pipe, aggregate, or concrete. When creating Requests for Quote, you will be able to select your pre-defined quote group and it will bring all the related resources along with it. You can assign quote groups using a pre-defined tag called a Quote Group in the Resource Rate Register.

Below is an example of resources with a quote group assigned:

Resource Rate Register 

All	Labor	Construction Equipment	Rented Construction Equipment	Installed Material	Installed Equipment	Supplies	Unique
-----	-------	------------------------	-------------------------------	--------------------	---------------------	----------	--------

Drag columns here to group

Resource Code		Description	Quote Group	Resource File Description	Unit of Measure
+ IECT		Cooling Towers	Process Equipment Install	Standard Installed Equipment Rate...	Each
+ IEFC		Feeder Controls	Landscaping Work	Standard Installed Equipment Rate...	Each
+ IEHS		Heating System	Process Equipment Install	Standard Installed Equipment Rate...	Each
+ IEPHP		Pump High Pressure	Commercial Work	Standard Installed Equipment Rate...	Each
+ IERMT		Raw Material Tank	Concrete Materials	Standard Installed Equipment Rate...	Each
+ IERS		Recovery System	Process Materials	Standard Installed Equipment Rate...	Each
+ IEST		Separator Tank	Process Materials	Standard Installed Equipment Rate...	Each

8.1.2.2 CBS LEVEL QUOTE GROUPS

For your subcontracted items, you can assign quote groups at the cost item level to group together subcontractor work, such as Commercial Work or Landscaping Work. These labels are assigned using a pre-defined tag called Quote Group in the Cost Breakdown Structure register.

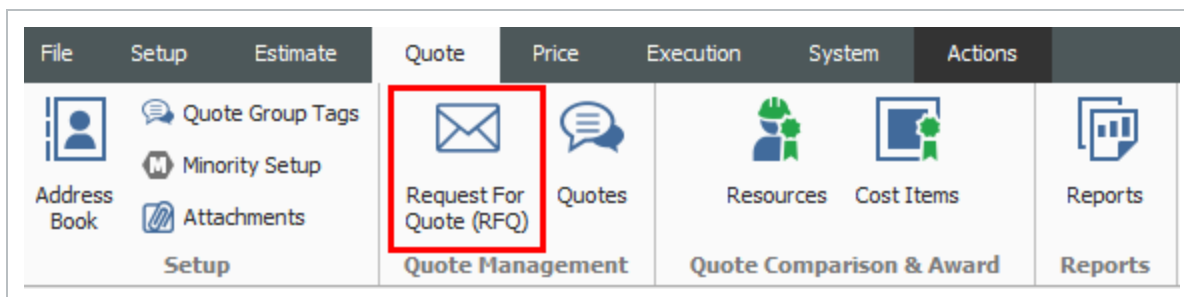
CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Quote Group
13	Paint Existing Steel Bridge Structure	1.00	Lump Sum	Structural Painting
14	Process Equipment	1.00	Each	Process Equipment Install
17	Toll Booth	1.00	Each	Commercial Work
18	Guardrail Type 2	1,000.00	Linear Feet	Guardrail Work
19	Guardrail Type 3A	200.00	Linear Feet	Guardrail Work
20	Type 4 Signs	1,000.00	Square Feet	Sign Work

8.2 REQUESTS FOR QUOTE

Requests for Quote (RFQs) are invitations to sellers that include a requested list of items or services/pricing and terms. When you create an RFQ in InEight Estimate, you are able to indicate the line items you want to include in the quote, and the vendor(s) to whom you want to send it.

8.2.1 REQUEST FOR QUOTE (RFQ) REGISTER OVERVIEW

To access the Request for Quote (RFQ) Register, from the InEight Estimate landing page, select the Quote tab, then click on Request for Quote (RFQ).

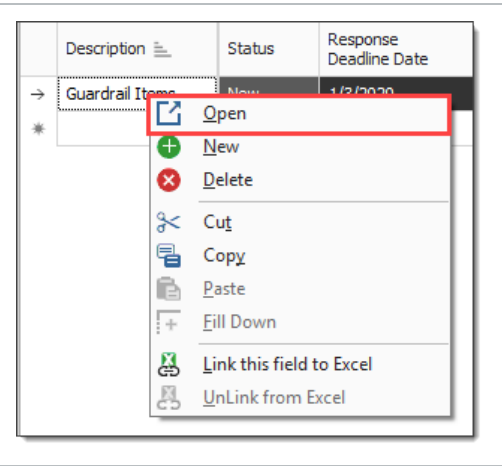


- The RFQ register lists all of the RFQs you've created, with a Description, a Status, and a Response Deadline Date

Cost Breakdown Structure (CBS) Register			Resource Rate Register		Request for Quote (RFQ) Register						
Drag columns here to group											
	Description	Status	Response Deadline Date	Response Deadline Time	Published Date	RFQ Instructions	Buyer's Special Terms	Tag 1	Tag 2	Tag 3	Notes
	Guardrail Items	New	1/3/2020	11:00 AM							
→											

8.2.2 REQUEST FOR QUOTE (RFQ) RECORD

You can double click on the row header, or right-click on any request for quote in the Request for Quote Register and choose **Open** to access an existing Request for Quote (RFQ) Record.



Overview - Request for Quote (RFQ) Record

Name		Definition
1	RFQ Description	Each record contains a Description, Deadline Date and Deadline Time fields to identify the RFQ and indicate when a response is due.
2	RFQ Tabs	The record is organized into tabs where you can define the items for the quote, terms & conditions, and the seller companies to receive the RFQ.
3	Status and Published Data	The Status and Published Date let you know if it is new or published (sent out), and when it was published.

Request for Quote (RFQ) Record

Description

Guardrail Items

Response Deadline Date: 7/29/2009

Response Deadline Time: 11:00 AM

Status

New

Published Date

Line Items

Terms & Conditions

Vendor Companies

Attachments

Setup

Resources

Cost Items

Drag columns here to group

Saved views: Standard View

CBS Position Code	RFQ ID	Quote Group Tag	Optional Code	Description	Quantity
→ 6.1	6.1	Guardrail Work	1500 0100	Guardrail Typ...	1,000.00
6.2	6.2	Guardrail Work	1500 0200	Guardrail Typ...	200.00
*					

OK

Cancel

New...

< Prev

Next >

8.2.3 CREATE AN RFQ

When putting together your RFQs, you will be able to select the appropriate material resources and cost items for which you need quotes in your estimate. To create a new RFQ, you have a few options:

- **Create RFQ from scratch:** This creates an empty RFQ Record for you to define
- **Create RFQ from Quote Group Tag(s):** This option lets you create an RFQ from a quote group so you can add multiple materials or subcontract items at once
- **Create RFQ using Default Seller data:** In your address book you can store vendors with a list of their default materials. This option lets you select the vendor and have it automatically find their

materials in the job

New RFQ

Cost Item Identification

Use the following field: CBS Position Code

Please select from the following options:

☒ Create RFQ from scratch

☐ Create RFQ from Quote Group Tag(s)

☒ Only show Quote Group tags that are currently utilized in this job

☒ On the resulting RFQ record, only list resources with utilization currently greater than zero

☐ Create RFQs using Default Seller data

This option scans the job for all Resources and Quote Groups utilized in the job. For any that are listed in the Address Book as 'Default Quotes' for the Sellers you select on the subsequent selection register, a new RFQ record will be added for each Seller listing their default items.

☒ Create separate RFQ records for each Quote Group, per seller?

Description

OK

Cancel

The rest of this section walks through each tab on the RFQ Record in more detail.

8.2.3.1 LINE ITEMS

The Line Items tab lists the resources or cost items selected for the RFQ, including the Description, Quantity, Quote Group, Currency and other user-defined tags.

Response Deadline Date: 7/29/2009 Response Deadline Time: 11:00 AM

Line Items Terms & Conditions Vendor Companies Attachments Setup

Resources Cost Items

Drag columns here to group

	CBS Position Code	RFQ ID	Quote Group Tag	Optional Code	Description	Quantity	Unit of Measure
→	6.1	6.1	Guardrail Work	1500 0100	Guardrail Typ...	1,000.00	Linear Feet
	6.2	6.2	Guardrail Work	1500 0200	Guardrail Typ...	200.00	Linear Feet
*							

8.2.3.2 TERMS & CONDITIONS

This tab provides ample space for you to enter terms, conditions and instructions that need to be included on the RFQ.

Response Deadline Date: 7/29/2009 Response Deadline Time: 11:00 AM

Line Items Terms & Conditions Vendor Companies Attachments Setup

Buyer's Special Terms & Conditions

Any penalties assessed by the owner due to quality control compliance deviations by the supplier will be deducted from the supplier's payment.

RFQ Instructions

Please contact site super John Smith @ 623-555-6982 for delivery instructions.

OK Cancel New... < Prev Next >

8.2.3.3 VENDOR COMPANIES

You will use the Vendor Companies tab to select the suppliers or subcontractors that will be receiving the RFQ. This is done by selecting them from the Estimate Library Address Book. This tab will store all of the pertinent contact information for each seller, including their fax number and/or email address so that you can send them the RFQ.

Response Deadline Date:
Response Deadline Time:

Line Items
Terms & Conditions
Vendor Companies
Attachments
Setup

Drag columns here to group

	Vendor	Contact	Status	Publish Item Quantities	Vendor Phone
→	SUB18	SUB18 -- Mel Blank	New	<input checked="" type="checkbox"/>	111-222-3232
	SUB4	SUB4 -- Harry Belefony	New	<input checked="" type="checkbox"/>	111-222-1111
	Ven18	Ven18 -- CARRIE Matty	New	<input checked="" type="checkbox"/>	111-333-3434
*				<input type="checkbox"/>	

The following options are particularly noteworthy:

- **Publish Item Quantities:** If you want the RFQ to specify your take-off quantities, select this checkbox. If you want to keep that information to yourself and let the vendors or contractors determine their own quantities, deselect this checkbox
- **Publish by Fax:** If you choose to publish by fax, InEight Estimate creates a Word document with a template filled out. It is ready to print and send, but you have the opportunity to double-check the information before emailing the RFQ

NOTE

When RFQs are generated for multiple vendors using the Publish by Fax option, be sure to separate the MS Word document pages and send only the correct pages to each vendor.

- **Publish by Email:** If you choose to publish by email, the Word document is created, the template is filled out, it is attached to an email, and automatically sent to the email address listed for that vendor in the Address Book

NOTE

When using the Publish by Email option, the process is automatic and it does not give you the opportunity to double check your information before the RFQ is emailed. For this reason, it is recommended to Publish by Fax, review the information, and then email the RFQ manually.

8.2.4 ATTACHMENTS

This tab allows you to specify any electronic files that need to be attached to the RFQ, such as drawings or specifications for the work.

Response Deadline Date: 7/29/2009Response Deadline Time: 11:00 AM

Line Items

Terms & Conditions

Vendor Companies

Attachments

Setup

Drag columns here to group

Saved views: Previous View

File Name	Description	Location	File Type	File Size	Attached By	Date Attached
plumber quote.pdf	plumber quote	Job Folder	Adobe Acrob...	166875	Paul Trippi@ine...	7/31/2023 11:08:21 AM

8.2.5 SETUP

The Setup tab lets you indicate what information will display on the published RFQ template, including custom tags. In addition to selecting tags and adding notes on the Setup tab, you can also specify your RFQ Publication Settings and can choose whether you want to include the instructions, special terms and conditions, notes and attachments.

Description

Guardrail Items

Response Deadline Date: 7/29/2009Response Deadline Time: 11:00 AM

Line Items

Terms & Conditions

Vendor Companies

Attachments

Setup

Tag 1:

Tag 2:

Tag 3:

RFQ Publication Settings

Cost Item Identifier: CBS Position Code

☒ Include RFQ Instructions

☒ Include Buyer's Special Terms & Conditions

☒ Include Notes

☐ Include Attachments

☒ Publish Item Quantities

☒ Publish To File

☒ Publish By Email

Notes

8.2.6 PUBLISH AN RFQ

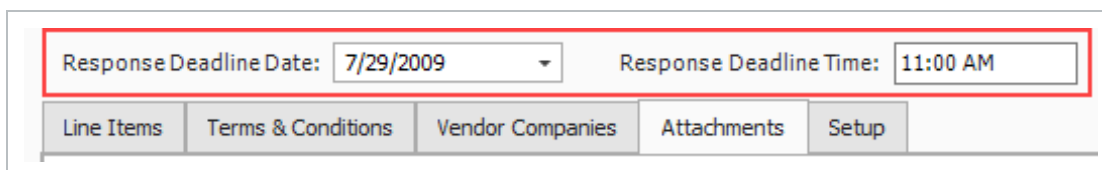
Once created, InEight Estimate allows you to generate a Microsoft Word RFQ template that can be faxed or manually sent via email to the supplier or subcontractor.

When you complete all of the fields that are required for this RFQ, you are ready to publish the RFQ. To do so, select all of the vendors that you want to receive the RFQ and click **Actions > Publish** on the RFQ Record ribbon.

STEP BY STEP – CREATE AND PUBLISH AN RFQ




This exercise walks through a specific example using the Training Job.


1. From the Estimate landing page, select the **Quote** tab.
2. Select **Request for Quote (RFQ)**.
3. From the Actions tab, click on the **New** icon to create a new RFQ.
4. Select **Create RFQ from Quote Group Tag(s)**, leaving the checkboxes checked to only show quote groups and resources that are being used.
5. Select the **Aggregates** quote group from the right panel.
6. Click **OK**.
7. In the Response Deadline Date field, select a **date** two weeks from today, and for the Response Deadline Time, type a **time stamp** (e.g. 11:00 am).



The screenshot shows a portion of the InEight Estimate software interface. At the top, there are two input fields: "Response Deadline Date:" with a dropdown menu showing "7/29/2009" and "Response Deadline Time:" with a text box containing "11:00 AM". These two fields are enclosed in a red rectangular box. Below these fields is a horizontal tab bar with five tabs: "Line Items", "Terms & Conditions", "Vendor Companies", "Attachments", and "Setup". The "Terms & Conditions" tab is currently selected and highlighted.

8. Select the **Terms & Conditions** tab.
9. Create and type **Prices are good for the duration of the contract** in the Buyer's Special Terms & Conditions field.
10. Type in **All items to be delivered to jobsite by supplier's trucks** in the RFQ Instructions field.
11. Select the **Vendor Companies** tab and click in the **first blank row** in the Company Name column.

Line Items	Terms & Conditions	Vendor Companies	Attachments	Setup	
Drag columns here to group					
	Vendor	Contact 	Status	Publish Item Quantities	Vendor Phone
	SUB18	SUB18 -- Mel Blank	New	<input checked="" type="checkbox"/>	111-222-3232
	SUB4	SUB4 -- Harry Belefony	New	<input checked="" type="checkbox"/>	111-222-1111
	Ven18	Ven18 -- CARRIE Matty	New	<input checked="" type="checkbox"/>	111-333-3434
		<div></div>		<input type="checkbox"/>	

12. Click on the **Address book**  icon, and then select the following example vendors:
- Example Vendor 1: Pat Roberts
 - Example Vendor 2: Stan Mark
 - Example Vendor 4: Lester Slim
13. Click **OK**.
14. Make sure **Publish to File** is checked for all vendors.
15. Uncheck **Publish by email** for each vendor.
16. Select the **sellers** to whom you want to send the RFQ.
- Word opens the file automatically for you to review; and from here you can either print it or send it in an email as an attachment

REQUEST FOR QUOTATION

Job: Training Job Training Job - Maricopa County No. TM2924

TO: **FROM:**

Name: Pat Roberts
Company: Example Vendor 1
 100 Tenth Street
 Hometown, AZ 889080

Phone: 111-123-2134
Mobile Phone:
Fax: 222-123-1234
Email:

Name: Tom Cross
Company: Example Prime Contractor 1
 400 First Street Suite 4000
 Hometown, AZ 889004

Phone: 111-122-1111
Mobile Phone:
Fax: 222-112-2211
Email:

Job Information: Training Job
 Training Job - Maricopa County No. TM2924

Owner:	Example Owner
Job Type:	Highway and General Engineering
Job Location:	I-10 MP 100 to MP 120
City:	Phoenix
County:	Maricopa
State / Province:	Arizona
Country:	United States
Bid Location:	Engineer's Office
Bid Date:	1/8/2020
Bid Time:	10:00 PM
Measurement System:	English

Request for Quote (RFQ) Information:

17. On the Actions tab of the record, select **Publish** to create your RFQ document.
18. Select the folder to publish to.
19. Click **OK** to save the RFQ Record.

8.2.7 RFQ EMAIL DRAFT

When sending out Requests for Quotes (RFQ) on a bid, it is essential to be able to effectively communicate the project requirements to potential subs or suppliers to ensure you have good quote coverage within your estimate. Email RFQs open as a draft email message, giving you, the sender, the opportunity to control specifically what is sent and customize the message before sending it out to subs and suppliers.

RFQ from InEight Corporation - SKIP for Training Job - Infrastructure: Training Job - Maricopa County No. TM2924 - Message (HTML)

File Message Insert Options Format Text Review Help Tell me what you want to do

Times New Roman 12 B I U A

Send To: Charlie Bravo Cc:

Subject: RFQ from InEight Corporation - SKIP for Training Job - Infrastructure: Training Job - Maricopa County No. TM2924

REQUEST FOR QUOTATION

Job: Training Job-1 Training Job - Maricopa County No. TM2924

TO:

FROM:

Name: Harry Belefony	Name: Tom Cross
Company: Example Sub #1 600 First Street Suite 6000 Hometown, AZ 889006	Company: Example Prime Contractor 1 400 First Street Suite 4000 Hometown, AZ 889004
Phone: 111-222-1111	Phone: 111-122-1111
Mobile Phone:	Mobile Phone:
Fax: 222-221-2212	Fax: 222-112-2211
Email: charlieb1234@example.com	Email:

Job Information:

Owner:	Training Job-1 Training Job - Maricopa County No. TM2924
Job Type:	Example Owner
Job Location:	Highway and General Engineering
City:	I-10 MP 100 to MP 120
County:	Phoenix
State / Province:	Maricopa
Country:	Arizona
Bid Location:	United States
Bid Date:	Engineer's Office
Bid Time:	1/6/2020
	5:00 AM

Request for Quote (RFQ) Information:

Publication Date: 8/21/2020 3:57 PM

Response Deadline Date: 7/29/2009 11:00 AM

8.3 QUOTES

When you receive responses to your RFQ, the next step is to enter their pricing in the Quote Register. The Quote Register stores all of the quotes you have for that job. Each quote has a Description and a Quote Status, and each quote displays seller contact information.

In this case, an estimator in charge of receiving quotes would need to determine how best to input these quotes within the Quote register.

8.3.1 SAMPLE RECEIVED QUOTE SCOPE SHEET

Overview - Received Quote Scope Sheet

Name		Description
1	Section one	Scope item one includes 4 items the subcontractor has considered as work to be done onsite. You may want to consider adding all 4 items as individual quotes. Then creating a package identifying these quotes as on-site work, totaling \$203,000.
2	Section two	Scope item two includes 3 items the subcontractor has considered as work to be done offsite. You may want to consider adding all 3 items as individual quotes. Then creating a package identifying these quotes as offsite work, totaling \$24,650.
3	Exclusions	The subcontractor is showing 9 items they excluded from their scope of responsibility.
4	Qualifications	The subcontractor has included 3 stipulations pertaining to this bid. If selected all 3 are considered accepted terms.

Received Quote Scope Sheet

DATE: 12/19/2019
 PROJECT: TRAINING JOB TRAINING JOB - MARICOPA COUNTY NO. TM2924
 LOCATION: PHOENIX, AZ

SITE CONCRETE: FORM, SUPPLY AND INSTALL

1

ON SITE IMPROVEMENTS

1. Vertical Curb; Curb and Gutter; Valley Gutter w/ rebar
2. 4" thick broom finish walk with wire mesh; ramp w/ domes
3. Flow-Through planer slab and walls
4. 8" thick crosswalk paving with rebar 36" x 36" pattern broom finish and 18" x 36" pattern colored aggregate finish (1 location only @ 16th street entrance)

Price: **\$203,300**

2

OFF SITE IMPROVEMENTS

1. Curb and Gutter
2. HC Ramps w/ domes; planter w/ rebar
3. 36" x 36" patterned finish walk w/ wire mesh

Price: **\$24,650**

3

EXCLUSIONS:

1. Layout of lines and grades
2. Site grading
3. Aggregate base and/or compaction; sand cushion
4. Sealants, caulking and waterproofing; precast items
5. Misc post footings and masonry wall footings
6. Supply of embedded iron or metal
7. Demolition
8. Traffic control and pedestrian protection

4

QUALIFICATIONS

1. Price valid for 60 days
2. GC will provide a concrete pump washout area
3. 5% retention will be released 45 days after completion of our work

Alternate Price to furnish and install 4" aggregate base under parking structure lab. Sand by others. Price based on rock being placed prior to piles, pilecaps and grade beams.
\$24,100

This proposal is good for thirty (30) days from the date herein, after which time Summit Construction reserves the right to review the proposal for any changes in price. Please call me if you need any further information.

Rick
 Estimator

8.3.2 QUOTE REGISTER OVERVIEW

To access the Quote Register, choose **Quote > Quotes** on the main InEight Estimate menu or click the **Quotes** icon on the toolbar.

Quote Register

Drag columns here to group

	Description	RFQ Description	Quote Status	Seller	Company	Quote Total	Awarded Total	Currency
	Aggregates	Aggregates	Accepted	Example Vendor 1 -- Pat Rob...	Example Vendor 1	\$402,192.00	\$402,192.00	U.S. Dollar
	Aggregates	Aggregates	Accepted	Example Vendor 4 DBE -- Les...	Example Vendor 4 ...	\$0.00	\$0.00	U.S. Dollar
	Aggregates	Aggregates	Accepted	Example Vendor 2 -- Stan Mark	Example Vendor 2	\$0.00	\$0.00	U.S. Dollar
/	Asphalt Materials		Accepted	Example Vendor 1 -- Pat Rob...	Example Vendor 1	\$1,115,97...	\$1,102,50...	U.S. Dollar
/	Asphalt Materials		Accepted	Example Vendor 2 -- Stan Mark	Example Vendor 2	\$1,263,17...	\$13,671.00	U.S. Dollar
	Electrical Work	Electrical Work	Accepted	Architectural Designs, Inc. -- ...	Architectural Desig...	\$4,200.00	\$0.00	U.S. Dollar
	Electrical Work	Electrical Work	Accepted	HD Engineering Group -- Rog...	HD Engineering Gr...	\$4,450.00	\$0.00	U.S. Dollar

8.3.3 QUOTE RECORD OVERVIEW

The Quote Record establishes who the vendor is, along with quoted prices and all terms and conditions. Once a requested quote returns, you can either create the quote in InEight Estimate from scratch or convert the original RFQ to a quote and enter the supplier or subcontractor pricing. Each Quote Record contains additional fields and options for managing the quote.

Quote Records utilize data blocks allowing you to reposition tabs, detach tabs into individual windows, and redock tabs in new locations. Using the data blocks layout, you can input and maintain important quote data like Vendor Qualifications and Special Terms & Conditions.

Right click on any existing quote in the Quote Register and choose **Open** to access the Quote Record.

Overview - Quote Record

Name		Description
1	Header block	You can include detailed contact information about the supplier or subcontractor. This automatically fills when you select the seller from the Address Book. The External Ref field can be used to access information specific to the bid/quote.
2	Price block	The Price data block contains a breakdown of pricing information for the quote, including taxes, item conditions, and special conditions.
3	Quote tabs	The tabs at the bottom of the screen hold detailed information regarding the quote.
4	Default Data Blocks	Data blocks include Special Terms & Conditions, Qualifications, Packages, Taxes, Vendor's Profile, Setup, and Minority.

Quote Record

Header

Description: Pipe Materials

Vendor: 1128354 Alberta Ltd - 0010... Vendor Name: 1128354 Alberta Ltd Vendor Phone: 780-920-3163

Contact: <Ad-Hoc Contact> First Name: Last Name: Contact Office: Contact Mobile:

Primary Email: External Ref.:

Optional Code: Date: 7/20/2023 Source: Currency: U.S. Dollar Status: Incomplete Ignore: Reason:

Total

Extended Price: \$0.00
Item Taxes: \$0.00
Quote Tax: \$0.00
Bond: \$0.00
Item Conditions: \$0.00
Special Conditions: \$0.00
Total: \$0.00

Resources Cost Items

Drag columns here to group

Code	RFQ ID	Quote Group	Optional Code	Description	No Split	Free	Awarded	Duration
1	1		1	pay item 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	2		2	pay item 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Special Terms & Conditions

Buyer's Special Terms & Conditions

Vendor's Special Terms & Conditions

Special Conditions Adjustments: \$0.00

Distribute Special Conditions: ☐ Evenly ☒ Using Weighted Average

☒ Include Special Conditions costs for unawarded quotes in Comparable Totals

Drag columns here to group

Row Number	Scope Item	Quote Group	Included	Amount	% of Total	Notes
------------	------------	-------------	----------	--------	------------	-------

Special Terms & Conditions Qualifications Packages Taxes Vendor's Profile Setup Minority

OK Cancel New... < Prev Next >

8.3.4 HEADER BLOCK

The Header block portion of the screen is where you enter in description information pertaining to the quote, along with vendor/contractor information.

There is an **External Ref** field you can use as a hyperlink for attaching any supporting bid quote attachments from the vendor/contractor.

On the right portion of the header block is where you enter optional information related to:

- **Optional Code** – a code used to reference the received quote.
- **Date** – date the quote is received.
- **Source** – this is the method by which the quote was received. The options are email, fax, hard copy, phone, and other.
- **Currency** – system of money in general use for a particular country..
- **Ignore** – by ignoring the quote, and providing a reason, the quote will turn grey in the Quote Comparison & Award screen.

8.3.4.1 QUOTE RECORDS

The Quote record header block includes a vendor field with a searchable address book library register drop-down list. You can select shared vendor data to populate your quote header record with Platform's shared master data.

The screenshot shows the 'Quote Record' form with the following fields:

- Description:** Asphalt Materials
- Vendor:** 1128354 Alberta Lt... (highlighted with a red box)
- Contact:** Alberta -- Frank Ma... (highlighted with a red box)
- Primary Email:** Frankmatty@gmail.com
- External Ref.:**
- Vendor Name:** 1128354 Alberta Ltd
- Vendor Phone:** 780-920-3163
- First Name:** Frank
- Contact Office:**
- Last Name:** Matty
- Contact Mobile:**

Below the form is the 'Address Book Register - Library' window, which displays a table of vendors:

Vendor ID	Vendor Name	Vendor Type	Tax ID	Tax Jurisdiction	Address 1
0010087554	1 Alliance Geomatics LLC	Z001	461564451	4803300400	1261A 120th Ave NE
1 NP - Vendor2	1_NP - Vendor2	1_NP Vendor	12345	abc	90th Street
1 NP - Vendor1	1_Vendor1	1_NP Vendor			
1 NP - Vendor1	1_Vendor1	1_NP Vendor			
0010099994	10X Engineered Materials LLC	Z001	824568213	1516913100	1162 Mancheser Ave
0010099994	10X Engineered Materials LLC	Z001	824568213	1516913100	1162 Mancheser Ave

The window includes an 'Actions' tab, a search bar, and 'OK' and 'Cancel' buttons.

Using Platform's shared data also reinforces accurate Estimate quote reporting. For example, you can report on which vendors and contacts have been awarded quotes or run a report on how many RFQs have been sent to select vendors and how many RFQs were returned for certain jobs. Additionally, using Platform shared vendors makes it possible to report on all activity related to a particular vendor. Examples include seeing how many subcontract agreements have been executed in InEight Contract, or how many claims/issues a vendor has been involved with in InEight Change. The predominant value for Estimate using Platform vendors, along with other InEight applications, ensures that the same vendors are being used by all applications.

8.3.5 PRICE BLOCK

The Price block includes the quotes extended price, along with any additional taxes, bonds, item conditions, and special conditions.

8.3.6 QUOTE RECORD TABS

8.3.6.2 RESOURCES & COST ITEMS

The Resources & Cost Items tab displays the resources or cost items quoted, along with their estimated quantities and units of measure.

- A Unit Price column is included on this tab for entering the quoted pricing from the seller, either manually or by pasting from an electronic format

- If a Package code is entered, the Unit Price field is greyed out, and the Package code amount is used
- Additional columns are provided for making conditional amount or percentage adjustments to the quote to manage last-minute changes
- A note field is included for explanation changes
- A No Split option indicates that the seller will only provide the quoted goods or services if they are selected to provide all listed items. They will not provide one quoted item without you procuring all others from them as well.
- You can check an item as Free for circumstances where the vendor will include the price of one item with another. Marking the included item(s) as free reminds you there is no quoted price for that item

Resources

Cost Items

Drag columns here to group

Find:

Saved views:

Previous View

Package	Code	RFQ ID	Quote Group	Optional Code	Description	No Split	Free	Awarded	Quantity	Unit of Measure	Unit Price	Extended Price
	3.1	3.1		3.1	Excavation, scrapers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	50,000.00	Cubic Yard	\$0.00 \$0.00
P1	3.2	3.2		3.1	Excavation, trucks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	50,000.00	Cubic Yard	P1 P1 \$200,000.00
P1	3.3	3.3		3.2	Embankment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	50,000.00	Cubic Yard	P1 P1
P1	3.4	3.4			Rock Excavation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	3,000.00	Cubic Yard	P1 P1

COST ITEM TAGS AND USER DEFINED FIELDS

There are 25 tag fields in the Quote Record register cost items tab. There are also 15 user defined fields that let you sort, filter, and group on selected quote records more efficiently.

For example, you can use tags and user-defined fields to isolate certain cost items, or group cost items together.

Quote Record		Header										Totals				
Description: Guard Rail Items		Contact: Example Sub #2 - Mel Blank		Phone: 111-222-3332		Optional Code:		Date:		Extended Price: \$30,200.00						
Company Name: Example Sub #2		Mobile:		Source:		Status: Received		Currency: U.S. Dollar		Quote Tax: \$0.00						
First Name: Mel		Fax: 222-222-1111		Email:		Ignore:		Reason:		Bond:						
Last Name: Blank										Special Conditions:						
External Ref:										Totals		\$30,200.00				

Resources		Cost Items		Drag columns here to group															Served views: Standard View				
Code	RFQ ID	Tag 11	Tag 12	Tag 13	Tag 14	Tag 15	Tag 16	Tag 17	Tag 18	Tag 19	Tag 20	Tag 21	Tag 22	Tag 23	Tag 24	Tag 25	User Defined 1	User Defined 2	User Defined 3	User Defined 4	User Defined 5		
S.1																							
S.2																							

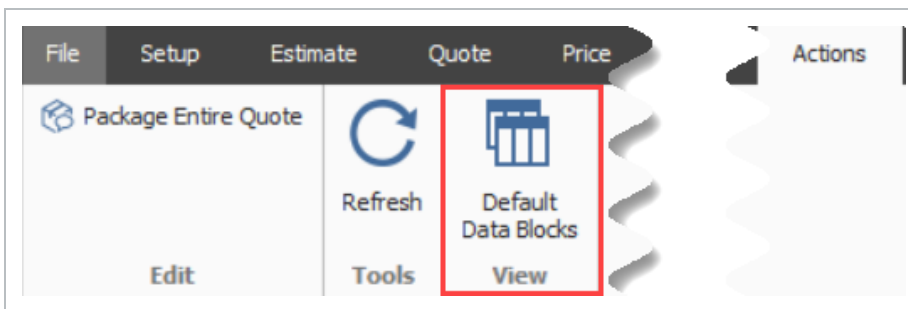
8.3.7 DATA BLOCKS

The Quote Record utilizes data blocks that allows you to customize the layout and focus on data block tabs that matter most to you. You can select the default data block action in the ribbon to revert back

to the default setting, which shows all six data blocks.

Data Block tabs include:

- Special Terms & Conditions
- Qualifications
- Packages
- Taxes
- Vendor's Profile
- Setup
- Minority



The seven data blocks appear at the bottom right of the screen.

Special Terms & Conditions

Buyer's Special Terms & Conditions

☒ Vendor's Special Terms & Conditions

Special Conditions Adjustments: \$0.00

Distribute Special Conditions: ☐ Evenly ☒ Using Weighted Average

☒ Include Special Conditions costs forunawarded quotes in Comparable Totals

Drag columns here to group

Row Number	Scope Item	Quote Group	Included	Amount	% of Total	Notes
					\$0.00	

Saved views: Standard View

Special Terms & Conditions

Qualifications

Packages

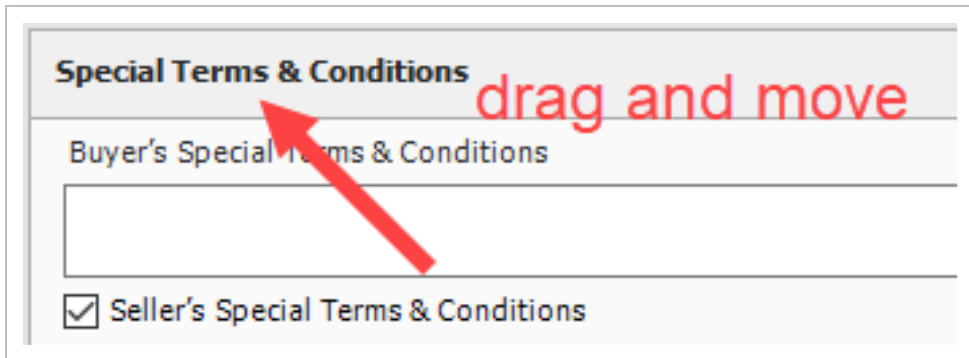
Taxes

Vendor's Profile

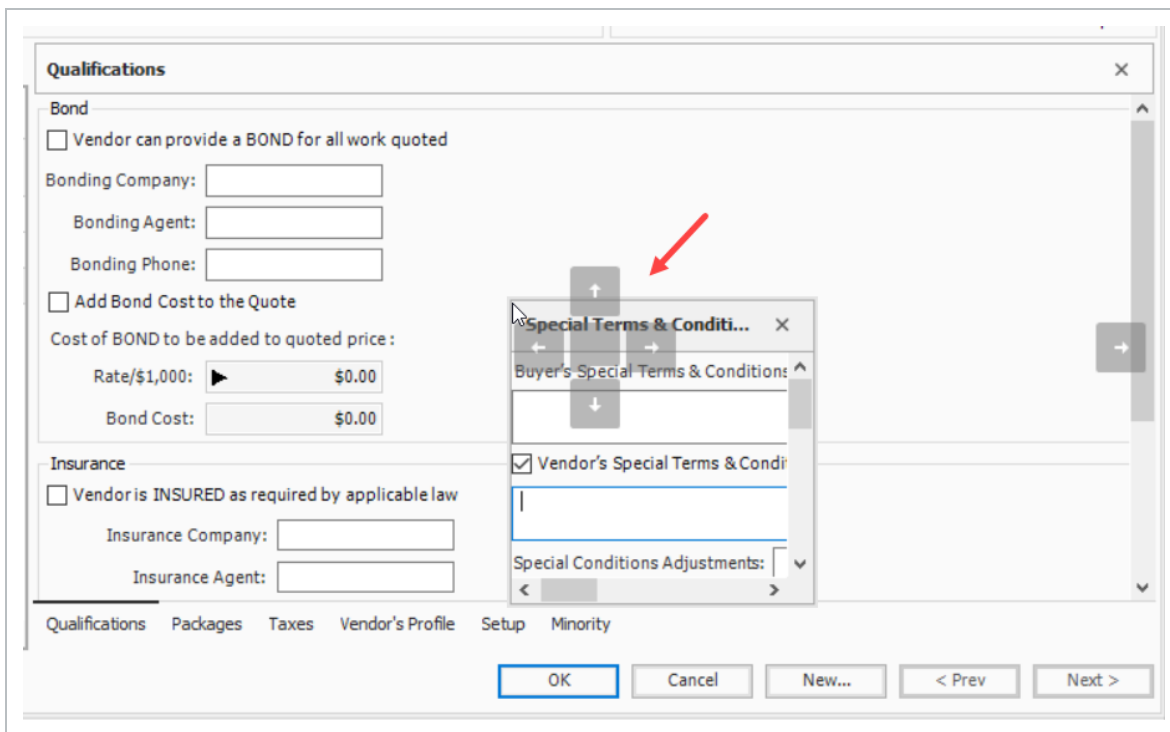
Setup

Minority

It's possible to move the entire data block, or individual data blocks to other parts of the screen. For example, select the Special Terms & Conditions header row, and drag to the desired part of the screen.



Drop the data block on top of an arrow where you wish to land the data block.



The data block will now reside on the left side of the screen.

Quote Record

Header

Description: Pipe Materials

Optional Code:

Date: 7/20/2023

Source:

Currency: U.S. Dollar

Status: Incomplete

Ignore: Reason:

Vendor: 1128354 Alberta Ltd -- 0010...

Vendor Name: 1128354 Alberta Ltd

Vendor Phone: 780-920-3163

Contact: <Ad-Hoc Contact>

First Name:

Contact Office:

Primary Email:

Last Name:

Contact Mobile:

External Ref.:

Special Terms & Conditions

Buyer's Special Terms & Conditions

☒ Vendor's Special Terms & Conditions

Special Conditions Adjustments: \$0.00

Distribute Special Conditions: ☐ Evenly ☒ Using Weighted Average

☒ Include Special Conditions costs for unawarded quotes in Comparable Totals

Drag columns here to group

Saved views: Standard View

Row Number	Scope Item	Quote Group	Included	Amount	% of Total	Nc
------------	------------	-------------	----------	--------	------------	----

Resource

Code

RF

1 1

2 2

Qualifications

Bond

☐ Vendor can provide a BOND for all work quoted

Bonding Company:

Bonding Agent:

Bonding Phone:

☐ Add Bond Cost to the Quote

Cost of BOND to be added to quoted price:

Rate/\$1,000: \$0.00

Bond Cost: \$0.00

Insurance

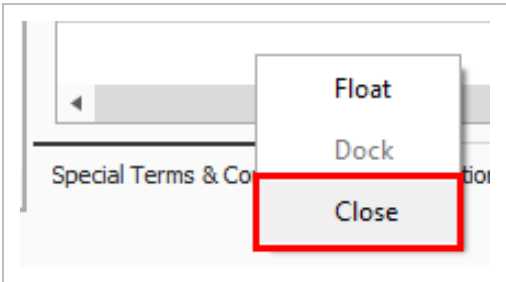
☐ Vendor is INSURED as required by applicable law

Insurance Company:

Insurance Agent:

Qualifications Packages Taxes Vendor's Profile

You can also close a specific tab if it's not commonly used. In this example, you can right click on a tab (like Special Terms & Conditions) and select close.



8.3.8 DATA BLOCK TABS

8.3.8.3 SPECIAL TERMS & CONDITIONS

Special Terms & Conditions is where you can include buyers and sellers special terms, add fixed cost to the quote, and include/exclude scope items.

Special Terms & Conditions

Buyer's Special Terms & Conditions

☒ Vendor's Special Terms & Conditions

Special Conditions Adjustments:

\$0.00

Distribute Special Conditions: ☐ Evenly ☒ Using Weighted Average

☒ Include Special Conditions costs forunawarded quotes in Comparable Totals

Drag columns here to group

Saved views:

Standard View

Row Number	Scope Item	Quote Group	Included	Amount	% of Total	Notes
						\$0.00

Special Terms & Conditions

Qualifications

Packages

Taxes

Vendor's Profile

Setup

Minority

8.3.8.4 QUALIFICATIONS

This tab allows you to include bond. You can enter the bond rate and the system will calculate the total Bond Cost or vise versa. This tab also allows you to enter insurance contact information and seller license information. If the vendor in the address book already had this information, then this information will get pre-filled when the seller is assigned to the Quote.

Qualifications

Bond

☒ Vendor can provide a BOND for all work quoted

Bonding Company:

Bonding Agent:

Bonding Phone:

☒ Add Bond Cost to the Quote

Cost of BOND to be added to quoted price :

Rate/\$1,000:

Bond Cost:

Insurance

☐ Vendor is INSURED as required by applicable law

Insurance Company:

Insurance Agent:

Insurance Phone:

License

☐ Vendor is LICENSED to perform all work quoted

Licenser:

Class:

ID:

Special Terms & Conditions

Qualifications

Packages

Taxes

Vendor's Profile

Setup

Minority

8.3.8.5 PACKAGES

Using the Packages feature lets you logically organize quotes into an arranged collection of like grouped packaged quotes. You can determine how to enter quotes from subcontractors and classify them into a package grouping. When you create a package within the Packages block, and give it a monetary value, you can then assign that package code to one or more quote records. The package code is limited to three characters.

When comparing various vendor quotes in the Quote Comparison and Award form, with each quote containing its own scope of work, you can easily distinguish which items belong to each package. This helps to identify which quotes to award in your decision-making process.

As an example, the following Civic Center Parking Structure quote has three packages defined in it. The P1, P2, and P3 on the left represent the grouped package numbers that will be used to determine the package structure in the quote record. The vendor that submitted this quote shows detailed estimates defined for each of the three packaged items, but there is no breakdown provided in the quote of how

much each line item is worth. Rather, this quote is showing a package price for each collection of items (scope of work).

Civilworks Inc.
125 Maple St
Scottsdale, AZ
85260

Phone (758) 555-9854

Civic Center Parking Structure

December 4, 2009

Addendum 1-6

	Description of Work	Price
P1	DEMOLITION, EXCAVATION AND GRADING (PARTIAL) Site Clearing of trees and bushes Demo of AC Paving, Concrete Curbs and Walks Sawcut AC Paving and Concrete Remove storm drain, SS, CB's, MH & pole bases Rough grade parking structure pad, commercial pad Place 12" non-expansive fill Fine grade pads Demo and remove 16th street curbs and paving Grade for new roadway Grade for exterior concrete sidewalks 2 mobilizations	\$150,780.00
P2	ASSISTED PARKING LOT (PARTIAL) Site Clearing of trees and bushes Demo curbs, excavate for paving Demo median on 16th Street, place temporary paving section Patch pave parking lot with 3" AC over 6" AB <i>Key Exclusions: slurry seal, striping, fencing, concrete work, lighting</i>	\$43,535.00
P3	PAVING (PARTIAL) Place aggregate base for AC Paving, curbs and walks Place 5" asphalt concrete section <i>Key Exclusions: slurry seal, striping, fencing, concrete work</i>	\$139,900.00
	OTHER ITEMS Load out stockpiled clean spoils Grade, fabric, place 4" AB for contractor parking (63,000 SF) Excavate Duct Bank Patch pave AC outside pave area (500 SF)	\$26.00/CY \$0.85/SF \$5,900.00 \$8.00/SF
	STANDARD EXCLUSIONS: <ol style="list-style-type: none"> Any permits, fees, inspections, plans, bond premiums, soil testing, etc. Any hard rock excavation. (Hard rock is defined as unable to be removed by CAT D6 or CAT 325 Excavator) Any trenching for footings of building or masonry structures. Any temporary fencing or trench plating. Any export of materials other than specifically included offhauls. Spoils over 12" in diameter will be offhauled at an additional agreed to cost. Any structure demolition or removal. (Concrete, asphalt, fencing, trees, buildings, signs, masonry) Any and all landscape repair, installation, or removal Any storm water pollution prevention or erosion control unless specifically mentioned. Base rock under concrete walkways or building slab areas unless specifically mentioned 	

Estimate's Package feature lets you pick all the cost items that belong to a particular package, then assign the price to that collection of packages. It then proportionally distributes the total package price across all of the corresponding cost items when comparing and awarding.

The screenshot displays the 'Quote Register' window in the InEight Estimate software. The 'Header' section contains fields for Description (Site work), Vendor (Civilworks Inc. -- Ven 07), Contact (Civilworks Inc. -- John Jacobs), Primary Email (jacob.jacobs@civilworks.com), External Ref., Optional Codes, Dates, Source, Currency (U.S. Dollar), Status (Received), and Ignored Reason. A summary on the right shows Total Extended Price (\$335,683.60), Item Taxes (\$18.43), Bond (\$0.00), and Special Conditions (\$0.00), with a Grand Total of \$335,702.03.

The 'Resources' tab is active, showing a list of packages. The 'Packages' section on the right provides a summary of the selected packages:

Code	Description	Amount
P1	Demo,Exav,Grading	\$150,780.00
P2	Assisted Parking Lot	\$43,535.00
P3	Paving	\$139,000.00

The main table lists individual cost items for each package, including codes, descriptions, quantities, unit measures, unit prices, and extended prices. For example, Package P1 includes items for Excavation, Finegrade Subgrade, Asphalt Concrete Hot, and Grading. Package P2 includes Process Equipment, Remove & Dispose Co., and Site Preparation. Package P3 includes Paving.

STEP BY STEP – CREATE A MULTI-PACKAGED QUOTE

1. From the InEight Estimate landing page, select the **Quote** tab.
2. Click on the **Quotes** icon under Quote Management.
3. Double click on an item (e.g. **Pipe Materials**).

Cost Breakdown Structure (CBS) RegisterQuote RegisterQuote Record

Drag columns here to group

	Description	RFQ Description	Quote Status	Seller
→	Pipe Materials		Received	Example Vendor
⚠	Pipe Materials		Received	Example Vendor
	Pipe Materials		Received	Example Vendor
⚠	Pipe Materials		Received	Example Vendor
*				

- 4. In the Description field, type in or replace the **description**.
- 5. In the Contact field, select a **contact**.

Cost Breakdown Structure (CBS) RegisterQuote RegisterQuote Record

Header

Description:

Pipe Materials for site improvements.

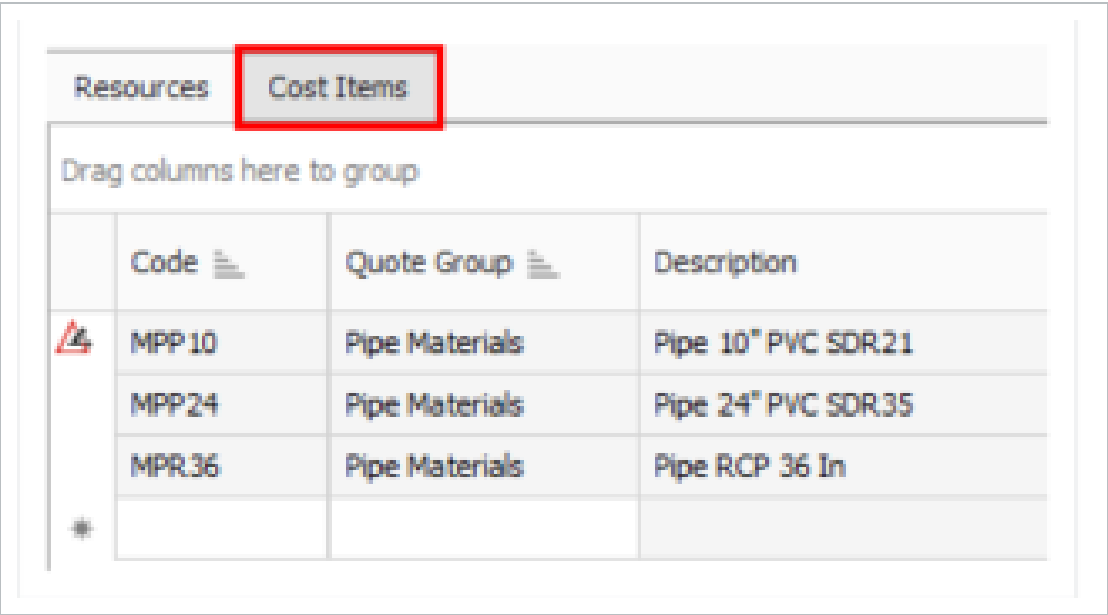
Contact:

Example Vendor 1 -- Pat Roberts

Company Name:

Example Vendor 1

- 6. Click **OK**
- 7. Select the **Cost Items** tab on the left side of the screen.











- 8. Add a **cost item** under Cost Items.
- 9. Then, add another **cost item** under Cost Items.
- 10. On the Packages tab, enter the following 2 new records:
 - Code: **P1**
 - Description: **On Site**
 - Amount: **\$200,000**
 - Code: **P2**
 - Description: **Off Site**
 - Amount: **\$300,000**

Packages			
Drag columns here to group			
	Code	Description	Amount
	P1	On Site	\$200,000.00
→	P2	Off Site	\$300,000.00
⊗			

- 11. Type in **P1** under Package for cost item 7.
- 12. Type in **P2** under Package for cost item 8.

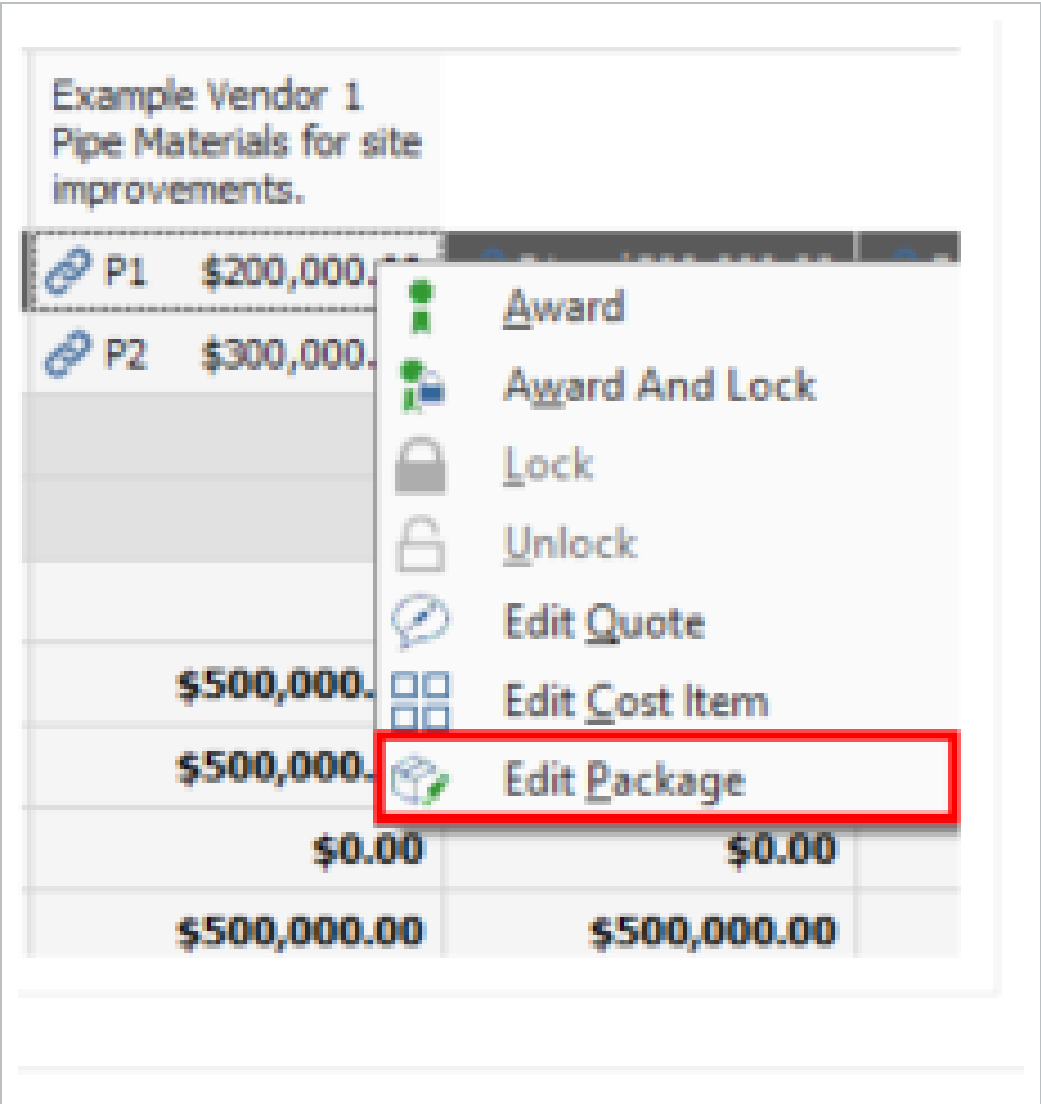
Resources							Packages		
Drag columns here to group: [Search For...] ... Saved views: Previous View							Drag columns here to group		
Package	Code	RFQ ID	Quote Group	Optional Code	Description	No	Code	Description	Amount
P1	7		Pipe Materials	800 0220	10 Inch PVC Force Main...		P1	OnSite	\$200,000.00
P2	8		Pipe Materials	800 0330	24 Inch PVC Gravity Se...		P2	Off Site	\$300,000.00
*							→		

- 13. Select **OK**.
- 14. Under the Quote Comparison and Award ribbon, select **Cost Items**.
- 15. Under Quote Groups, select **Pipe Materials**.
 - Quote Comparison and Award shows the newly created quote with the associated package quotes.

Detail	Example Vendor 1 Pipe Materials		Example Vendor 6 WBE Pipe Materials		Example Vendor 1 Pipe Materials for site improvements	
 \$22.51	 P1	\$290,000.00	 P1	\$300,000.00	 P1	\$200,000.00
 \$52.84	 P2	\$126,000.00	 P2	\$125,000.00	 P2	\$300,000.00
\$428,694...		\$416,000.00		\$425,000.00		\$500,000.00
\$428,694...		\$416,000.00		\$425,000.00		\$500,000.00
\$428,694...		\$0.00		\$0.00		\$0.00
\$428,694...		\$416,000.00		\$425,000.00		\$500,000.00
\$0.00		\$0.00		\$0.00		\$0.00
	11/13/2019 4:1...		11/13/2019 4:4...		11/13/2019 4:3...	

- The Package Price can quickly be modified in the Quote Comparison and Award form by selecting the Edit Package action in the Actions tab or by using the right click context

menu.



8.3.8.6 TAXES

Item Tax and Quote Tax have been combined to display on a single data block called Taxes. Using the taxes feature allows you to add item taxes to each item's price. You can also add taxes to the quote.

Taxes

Item Tax

☒ Add Item Taxes to each Item's Price

Quote Tax

☒ Add Taxes to the Quote

Taxes to be added to Awarded Total as a Percentage of Total:

Tax Rate:

0.00

Total Tax:

▶ \$450.00

Special Terms & Conditions

Qualifications

Packages

Taxes

Vendor's Profile

Setup

Minority

8.3.8.7 SELLER'S PROFILE

The Seller's Profile tab populates with address book notes and alternate contact information.

Vendor's Profile

Address Book Notes

Example.....save for training as needed.

Alternate Contact Information

☐ Name:

☐ Email:

☐ Phone:

☐ Fax:

☐ Mobile:

Special Terms & Conditions

Qualifications

Packages

Taxes

Vendor's Profile

Setup

Minority

8.3.8.8 SETUP

This tab provides extra space for any additional notes and tags to be assigned to the quote.

Setup

Current Status

RFQ Status:

Last Update: 5/5/2020 7:05:03 PM

Quote Origin: WMFarr

Tags

Tag 1: Pipe

Tag 2:

Tag 3:

Notes

Special Terms & Conditions Qualifications Packages Taxes Vendor's Profile **Setup** Minority

8.3.8.9 MINORITY

This tab allows you to determine if the seller qualifies for any type of minority business, and the ability to apply a certification number.

Minority

Minority Business Enterprise

☐ Vendor qualifies as the following type of MINORITY BUSINESS ENTERPRISE on this job:

☒ DBE

DBE Certification:

☐ MBE

MBE Certification:

☐ WBE

WBE Certification:

☐ OBE1

OBE1 Certification:

☐ OBE2

OBE2 Certification:

☐ OBE3

OBE3 Certification:

☐ OBE4

OBE4 Certification:

☐ OBE5

OBE5 Certification:

☐ OBE6

OBE6 Certification:

☐ OBE7

OBE7 Certification:

Special Terms & Conditions

Qualifications

Packages

Taxes

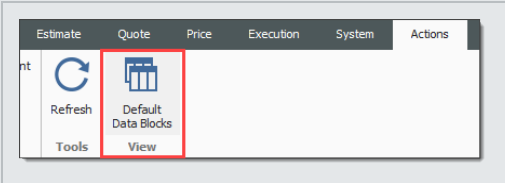
Vendor's Profile

Setup

Minority

TIP

If any of your Data Blocks become deleted on a Quote Record, simply click the **Default Data Block** icon.



8.3.9 CREATE A QUOTE FROM RFQ

Walk through the steps of creating a quote from an RFQ.

TIP

To create a quote from scratch, click the **New** icon on the Quote Register and fill in the quote details and seller fields manually.

STEP BY STEP – CREATE A QUOTE FROM RFQ

This exercise walks through a specific example using the Training Job.

1. From the Estimate landing page, select the **Quote** tab.
2. Select **Request for Quote (RFQ)**.
3. Open the RFQ record for which you've received quotes.
4. Select the **Vendor Companies** tab and select the vendors for whom you need to create quotes.
In this case, select all the vendors.
5. From the Actions menu, select **Create Quote**.
6. Click **OK** on the Quotes created prompt.
7. Close the RFQ record and the RFQ register.

8.3.10 ENTER QUOTE DETAILS

Now that you have quotes created, you can enter pricing.

STEP BY STEP – ENTER QUOTE DETAILS

This exercise walks through a specific example using the Training Job.

1. To open the Quote Register, select **Quote** from the Estimate landing page.
2. Select **Quotes** from the Quote Management section.
3. Open the Aggregates Quote Record for Vendor 1 – Pat Roberts.
4. On the Resources tab, make sure No Split is unchecked for all items.
5. Also on the Resources tab, enter the following unit prices:

Resource Code	Description	Unit Price
MBR	Aggregate Base Rock	\$8.00
MDIRTB	Dirt Class B	\$6.00

6. Click **OK** to close the Quote Record.

STEP BY STEP – CREATE A MULTI-PACKAGED QUOTE

1. From the InEight Estimate landing page, select the **Quote** tab.
2. Click on the **Quotes** icon under Quote Management.
3. Double click on an item (e.g. **Pipe Materials**).

Cost Breakdown Structure (CBS) Register



Quote Register

Quote Record

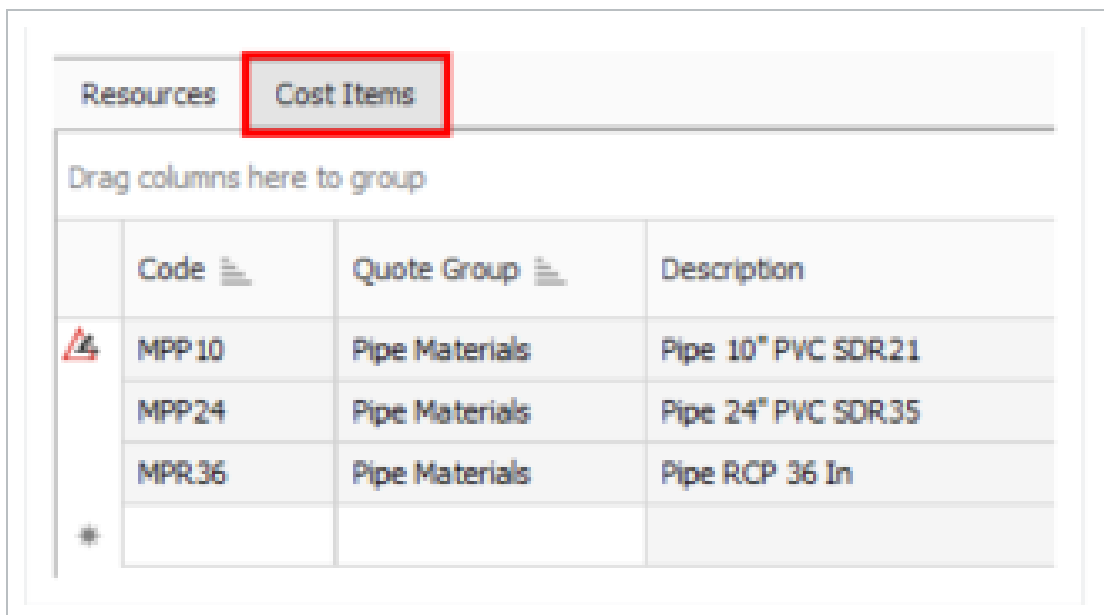
Drag columns here to group

	Description	RFQ Description	Quote Status	Seller
→	Pipe Materials		Received	Example Vendor
⚠	Pipe Materials		Received	Example Vendor
	Pipe Materials		Received	Example Vendor
⚠	Pipe Materials		Received	Example Vendor
*				

4. In the Description field, type in or replace the **description**.
5. In the Contact field, select a **contact**.

Cost Breakdown Structure (CBS) Register	Quote Register	Quote Record
Header		
Descriptions:	Pipe Materials for site improvements.	
Contact:	Example Vendor 1 -- Pat Roberts	 
Company Name:	Example Vendor 1	

6. Click **OK**
7. Select the **Cost Items** tab on the left side of the screen.



Resources		Cost Items	
Drag columns here to group			
	Code	Quote Group	Description
/4	MPP10	Pipe Materials	Pipe 10" PVC SDR21
	MPP24	Pipe Materials	Pipe 24" PVC SDR35
	MPR36	Pipe Materials	Pipe RCP 36 In
*			

8. Add a **cost item** under Cost Items.
9. Then, add another **cost item** under Cost Items.
10. On the Packages tab, enter the following 2 new records:
 - Code: **P1**
 - Description: **On Site**
 - Amount: **\$200,000**
 - Code: **P2**
 - Description: **Off Site**
 - Amount: **\$300,000**

Packages			
Drag columns here to group			
	Code	Description	Amount
→ 	P1	On Site	\$200,000.00
	P2	Off Site	\$300,000.00

- 11. Type in **P1** under Package for cost item 7.
- 12. Type in **P2** under Package for cost item 8.

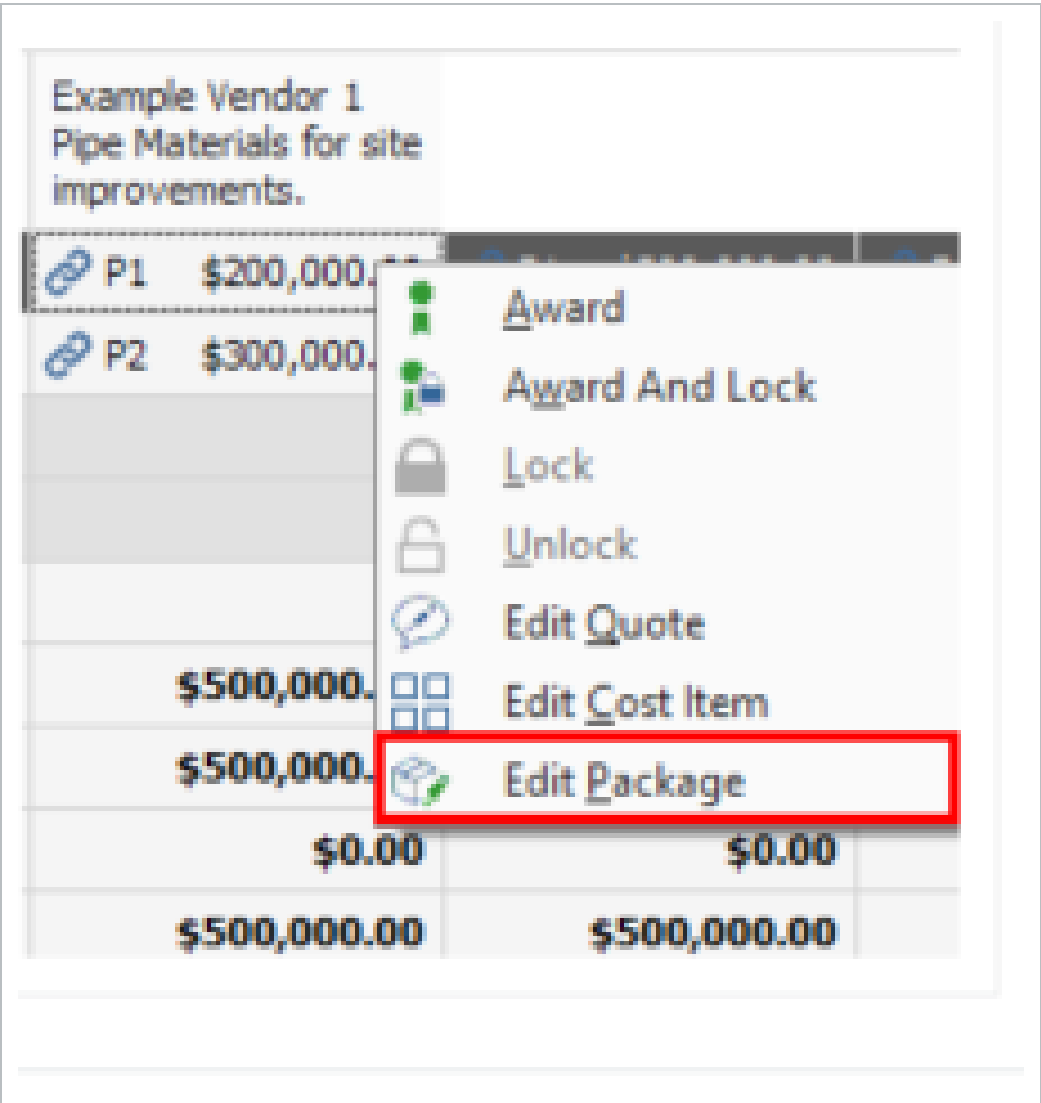
Resources							Packages		
Cost Items							Drag columns here to group		
Drag columns here to group: [Search For...] ... Saved views: Previous View									
Package	Code	RFQ ID	Quote Group	Optional Code	Description	No	Code	Description	Amount
P1	7		Pipe Materials	800 0220	10 Inch PVC Force Main...		P1	OnSite	\$200,000.00
P2	8		Pipe Materials	800 0330	24 Inch PVC Gravity Se...		P2	Off Site	\$300,000.00

- 13. Select **OK**.
- 14. Under the Quote Comparison and Award ribbon, select **Cost Items**.
- 15. Under Quote Groups, select **Pipe Materials**.
 - Quote Comparison and Award shows the newly created quote with the associated package quotes.

Detail	Example Vendor 1 Pipe Materials	Example Vendor 6 WBE Pipe Materials	Example Vendor 1 Pipe Materials for site improvements
\$22.51	P1 \$290,000.00	P1 \$300,000.00	P1 \$200,000.00
\$52.84	P2 \$126,000.00	P2 \$125,000.00	P2 \$300,000.00
\$428,694...	\$416,000.00	\$425,000.00	\$500,000.00
\$428,694...	\$416,000.00	\$425,000.00	\$500,000.00
\$428,694...	\$0.00	\$0.00	\$0.00
\$428,694...	\$416,000.00	\$425,000.00	\$500,000.00
\$0.00	\$0.00	\$0.00	\$0.00
	11/13/2019 4:1...	11/13/2019 4:4...	11/13/2019 4:3...

- The Package Price can quickly be modified in the Quote Comparison and Award form by selecting the Edit Package action in the Actions tab or by using the right click context

menu.



8.3.11 USE UNIT PRICE OR EXTENDED PRICE ON QUOTE RECORD ITEM

It's possible to enter the Extended Price for a Quote Item, and the Unit Price is then calculated, which makes entering quotes more efficient and results in less errors.

Quote Record

Header

Description: Asphalt Materials

Contact: Example Vendor 2 - Stan Mark

Phone: 111-133-2123

Company Name: Example Vendor 2

Mobile:

First Name: Stan

Fax: 222-123-2134

Last Name: Mark

Email:

External Ref.:

Optional Code:

Date:

Source:

Currency: U.S. Dollar

Status: Received

Ignore:

Reason:

Resources

Cost Items

Drag columns here to group

Code	Quote Group	Description	No Split	Free	Awarded	Duration	Quantity	Unit of Measure	Unit Price	Extended Price	Currency	Default Tax Rate
MAAM	Asphalt Materials	Asphalt Mix (Finish)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	35,000.00	Ton	\$34.00	\$1,190,000.00	U.S. Dollar	
MAFA	Asphalt Materials	Fine Aggregate	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	1,860.00	Ton	\$7.00	\$13,020.00	U.S. Dollar	

Saved views: Previous View

Special Terms & Conditions

Buyer's Special Terms & Conditions

Seller's Special Terms & Conditions

Special Conditions Adjustments:

Distribute Special Conditions: ☒ Evenly ☐ Util

☐ Include Special Conditions costs forwarded c

8.3.12 DUPLICATING AN EXISTING QUOTE

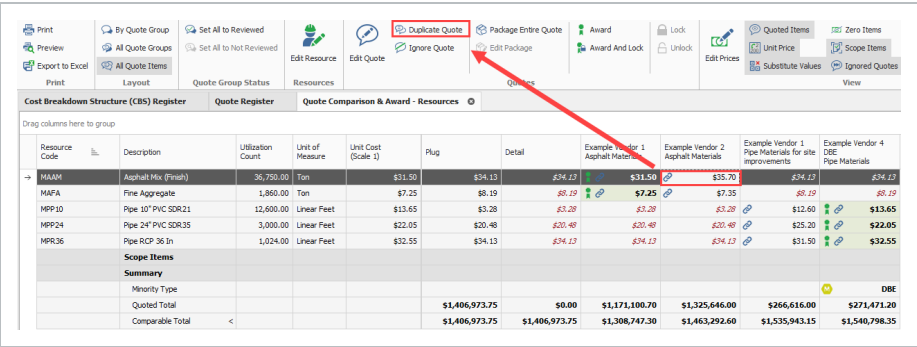
You can create a new quote by duplicating an existing quote from the Quote Compare & Award form. Duplicate Quotes will contain the same scope as the quote that you previously copied.

STEP BY STEP – DUPLICATE AN EXISTING QUOTE

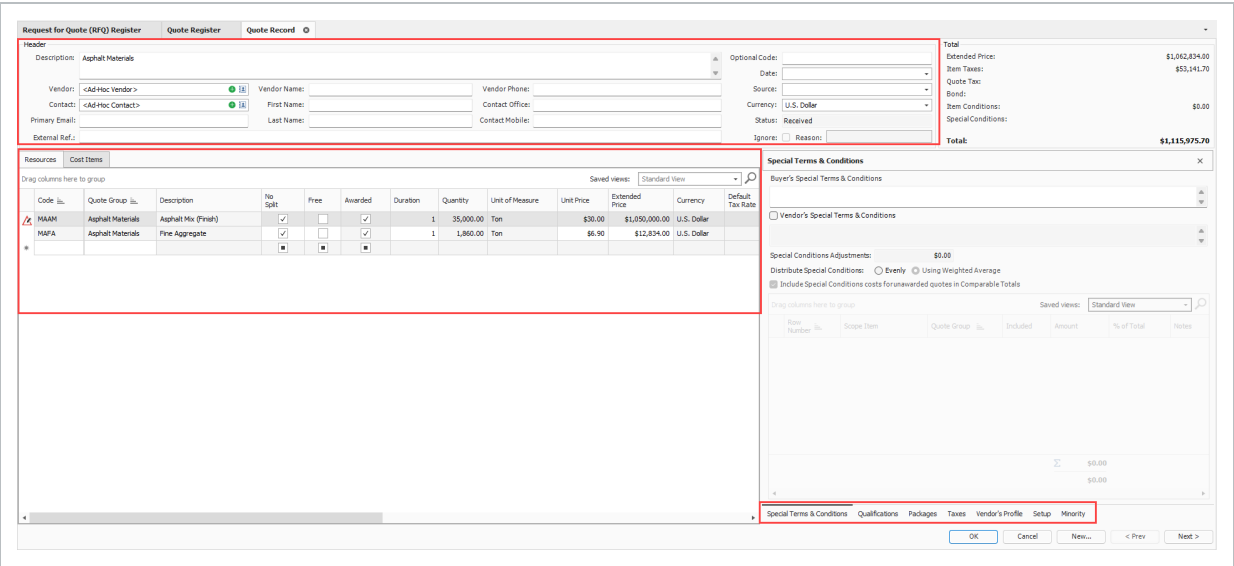
- 1. From the InEight Estimate landing page, select the **Quote** tab.
- 2. Select the **Resources** icon under Quote Comparison & Award.
- 3. Highlight any row under the Quote column you want to duplicate.

Cost Breakdown Structure (CBS) Register												
Quote Register												
Quote Comparison & Award - Resources												
Drag columns here to group												
Resource Code	Description	Utilization Count	Unit of Measure	Unit Cost (Scale 1)	Plug	Detail	Example Vendor 1 Asphalt Materials	Example Vendor 2 Asphalt Materials	Example Vendor 3 Pipe Materials	Example Vendor 4 DBE Pipe Materials		
MAAM	Asphalt Mix (Finish)	36,750.00	Ton	\$31.50	\$34.13	\$34.13	\$31.50	\$35.70	\$34.13	\$34.13		
MAFA	Fine Aggregate	1,860.00	Ton	\$7.25	\$8.19	\$8.19	\$7.25	\$7.35	\$8.19	\$8.19		
MPP10	Pipe 10" PVC SDR21	12,600.00	Linear Feet	\$13.65	\$3.28	\$3.28	\$3.28	\$3.20	\$12.60	\$13.65		
MPP24	Pipe 24" PVC SDR35	3,000.00	Linear Feet	\$22.05	\$20.48	\$20.48	\$20.48	\$20.48	\$25.20	\$22.05		
MPP36	Pipe RCP 36 In	1,024.00	Linear Feet	\$32.55	\$34.13	\$34.13	\$34.13	\$34.13	\$31.50	\$32.55		
Scope Items												
Summary												
Minority Type												
Quoted Total							\$1,171,100.70	\$1,325,646.00	\$266,616.00	\$271,471.20	DBE	
Comparable Total							\$1,406,973.75	\$1,463,292.60	\$1,535,943.15	\$1,540,798.35		

- 4. Select the **Actions** tab.
- 5. Under the Quotes section, select the **Duplicate Quote** icon.



- The resources and prices from the quote you previously selected have been copied into a new Quote Record.
6. From the Header block, enter in any missing information.
- The information listed in the Header block will not copy over to the duplicated quote.
7. Enter additional Cost Items in the Quote tabs data block.
- Check the default data blocks for any information you want to add to your duplicate quote.



8. Once done, click **OK**.

EXERCISE 8.1 – QUOTE MANAGEMENT

When you receive quotes from vendors, you will need to record their pricing and conditions in their Estimate quote records. In this exercise, you will practice entering quote details. Enter the following quote record details, using the Training Job:

Quote Name: Aggregates	Seller Name: Example Vendor 2 - Stan Mark	
Resource Code	Description	Unit Price
MBR	Aggregate Base Rock	\$7.45
MDIRTB	Dirt Class B	Not Quoted (delete)
Special Instructions Seller is NOT willing to split items.		
Quote Name: Aggregates	Seller Name: Example Vendor 4 - Lester Slim	
Resource Code	Description	Unit Price
MBR	Aggregate Base Rock	\$8.15
MDIRTB	Dirt Class B	FREE
Special Instructions Seller is NOT willing to split items.		

You should end up with similar results like below:

Description	RFQ Description	Seller	Contact Name	Quote Total
Aggregates	Aggregates	Example Vendor 4 DBE -- Lester Slim	Slim, Lester	\$408,834.56
Aggregates	Aggregates	Example Vendor 2 -- Stan Mark	Mark, Stan	\$373,719.94
Aggregates	Aggregates	Example Vendor 1 -- Pat Roberts	Roberts, Pat	\$402,192.00

Congratulations, you have completed this exercise!

8.4 QUOTE COMPARISON & AWARD

Now that you've received quotes and entered pricing information, you will compare them to determine which is the preferred vendor or contractor to carry their pricing in your estimate. The Quote Comparison & Award forms improve visibility into comparative analytics, while increasing efficiencies in populating the estimate with quoted values.




The Quote Comparison & Award screen is designed to closely match the layout of a vendor comparison sheet. It's designed to show all scope items with prices provided by multiple vendors and substitute pricing where items have been excluded.

Now that you've entered contextual quote information in the Quote Register, the Quote Comparison & Award screen provides you with the ability to make better, and more efficient determinations for awarding the quote.

8.4.1 QUOTE COMPARISON & AWARD OVERVIEW

To open the Quote Comparison & Award form, select **Quote > Quote Comparison & Award**.

Overview - Quote Comparison and Award Form

Name		Definition
1	Resource and Cost Item Filter	You can show either your quoted resources or cost items.
2	Quote Group Filter	This section provides checkboxes to further filter your items. The Quote Group Filter allows you to mark the quotes as reviewed.
3	Quote Description and Vendor	Your quotes display with the vendor name plus the quote description. <ul style="list-style-type: none">Awarded items have an award symbol If an item is designated as No Split, it has a chain link icon Awarded and Locked items have a lock symbol next to the award symbol 
4	Cost Source Type	The cost source can either be a Plug or Detail type.

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Plug	Detail	Example Sub #2 Guard Rail Items	Example Sub #1 Guard Rail Items	HD Engineering Group Concrete, Sitework
18	Guardrail Type 2	1,000.00	Linear Feet	\$24.00	\$24,000.00	\$25,000.00	\$25,000.00	\$24,000.00	\$25,000.00	\$50,000.00
19	Guardrail Type 3A	200.00	Linear Feet	\$31.00	\$6,200.00	\$7,000.00	\$7,000.00	\$6,200.00	\$6,000.00	\$7,000.00
Scope Items										
Summary										
Minority Type										
Quoted Total						\$32,000.00	\$0.00	\$30,200.00	\$31,000.00	\$50,000.00
Comparable Total						\$32,000.00	\$57,000.00	\$30,200.00	\$31,000.00	\$57,000.00

8.4.2 EDIT MODE

You can make last minute modifications to the quote price directly in the Quote Comparison and Award form.

When in Edit mode, the quote item's price, unmodified by the quote's bond cost or special conditions, can be updated. You can modify the Unit price or the Extended price for each of the quote items that are not part of the package or marked as Free.

The updates made to quote items in Quote Compare and Award will update the estimate in real time allowing you to see the impact of the changes in the estimate.

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Plug	Detail	Case Construction Concrete Framework	Case Construction Concrete Framework
3.4.1	formwork	1.00	Lump Sum	\$2,317,240.00	\$2,317,240.00	\$5,281,200.00	\$2,317,240.00	\$2,317,240.00	\$2,317,240.00
3.4.2	place and finish	1.00	Lump Sum	\$285,000.00	\$285,000.00	\$375,500.00	\$285,000.00	\$285,000.00	\$285,000.00
Scope Items									
Summary									
Minority Type									
Quoted Total						\$3,656,700.00	\$0.00	\$2,850,000.00	\$2,850,000.00
Comparable Total						\$3,656,700.00	\$2,810,200.00	\$2,810,200.00	\$2,810,200.00

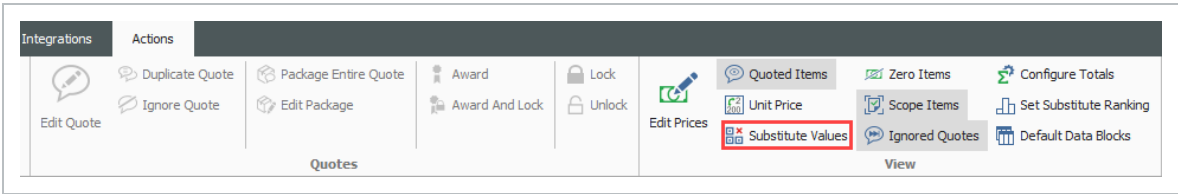
8.4.3 SUBSTITUTE VALUES

You can display a substitute value by selecting **Actions > Substitute Values**.

Notice the entered quotes. One of the vendors did not give pricing for three of the CBS items.

								HD Engineering Group Concrete, Sitework
18	Guardrail Type 2	1,000.00	Linear Feet	\$24.00		\$24,000.00	\$25,000.00	\$50,000.00
19	Guardrail Type 3A	200.00	Linear Feet	\$31.00		\$6,200.00	\$7,000.00	
20	Type 4 Signs	1,000.00	Square F...	\$15.00		\$15,000.00	\$15,000.00	
27.1	Electrical Work	1.00	Each	\$5,000.00		\$5,000.00	\$5,000.00	

When you compare this quote to the others, it can be difficult to see if the total cost of the quote is high or low because it is missing some of the pricing. InEight Estimate can help you make an “apples to apples” comparison by filling in a substitute price for items that are missing.



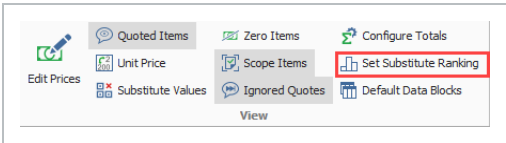
You can tell when it’s a substitute value because the price displays in italics.

								HD Engineering Group Concrete, Sitework
18	Guardrail Type 2	1,000.00	Linear Feet	\$24.00		\$24,000.00	\$25,000.00	\$50,000.00
19	Guardrail Type 3A	200.00	Linear Feet	\$31.00		\$6,200.00	\$7,000.00	<i>\$7,000.00</i>
20	Type 4 Signs	1,000.00	Square F...	\$15.00		\$15,000.00	\$15,000.00	<i>\$13,000.00</i>
27.1	Electrical Work	1.00	Each	\$5,000.00		\$5,000.00	\$5,000.00	<i>\$3,500.00</i>

InEight Estimate grabs the substitute value from one of four places:

1. Awarded splittable quote
2. Lowest splittable quote you’ve received
3. Detail (this only applies to quoting cost items)
4. Plug cost (the rate defined for that resource in InEight Estimate)

You can set the order for a substitute value by selecting **Actions > Set Substitute Ranking**.

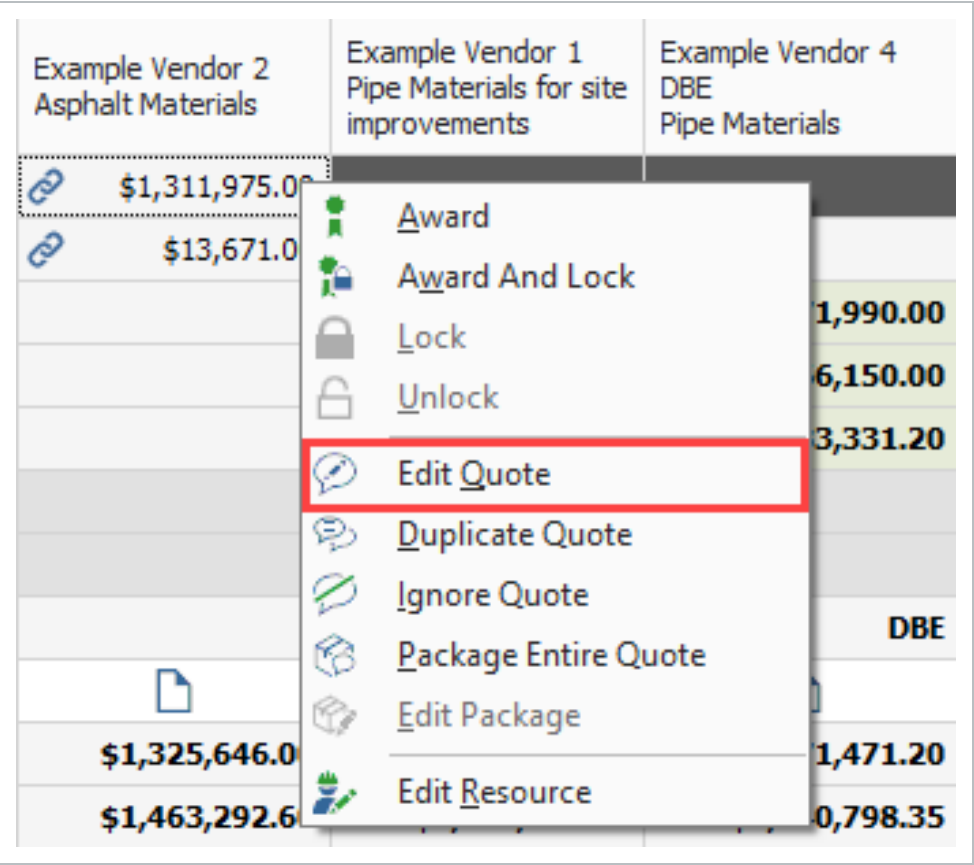


On the resulting Substitute Ranking window, you can use the up and down arrows to change the selection order. It will look from the top to the bottom of the list. The plug being in red represents the most risk, while the Awarded Splittable Quote is the least risk. Users can modify the color coding of these Substitute values by navigating to System Customize dialog and then selecting Substitute Quote Ranking in the colors sections.

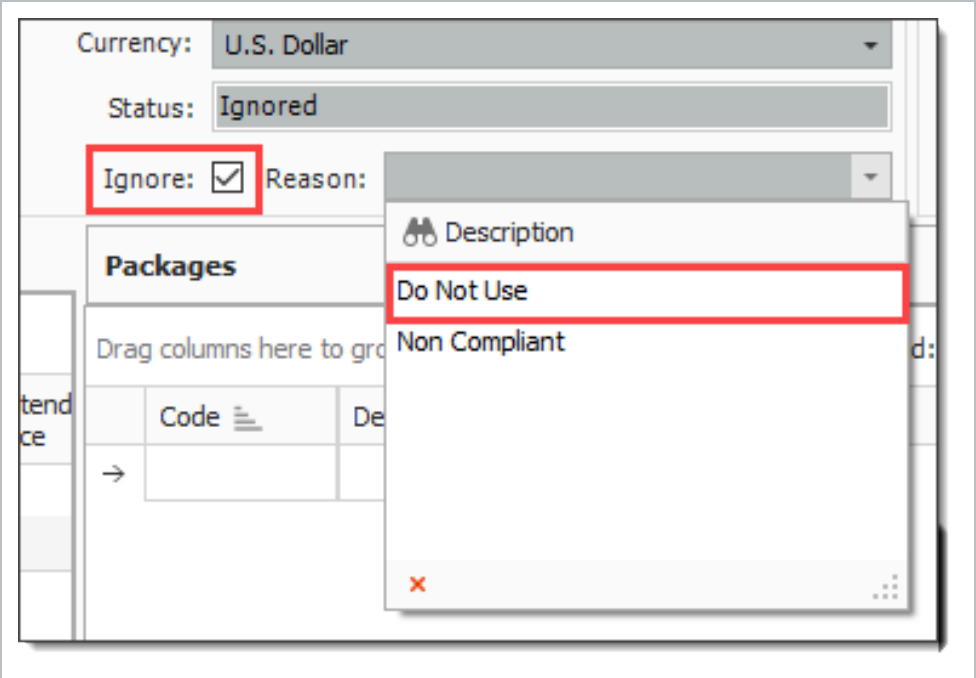
8.4.4 DISPLAY IGNORED QUOTES

You can view ignored quotes by selecting **Actions > Ignored Quotes**.

You can ignore a quote by right clicking on the subcontractor header, then selecting Edit Quote.



From the Quote Record screen, select the Ignore check box and also a Reason, then select OK.



NOTE If the quote record is already awarded, you will not be able to select the Ignore option.

If the Ignored Quotes button is pressed, the ignored quote will display in grey. An ignored Quote cannot be awarded. The ignored quotes get appended to the right end of the QC&A form.

Award

Award And Lock

Lock

Unlock

Edit Prices

Quoted Items

Unit Price

Substitute Values

Scope Items

Ignored Quotes

Zero Items

Configure Totals

Set Substitute Ranking

Default Data Blocks

Session Recap

Auto Award

Tools

Quote Comparison & Award - Cost items

Find: [Search For...]

Saved views: Previous View

Unit of Measure	Unit Cost	Total Cost (Forecast)		Detail	Example Sub #3 Sign Items	Example Sub #2 Guard Rail Items	Example Sub #4 DBE Sign Items	Example Sub #1 Guard Rail Items
Linear Feet	\$24.00	\$24,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$24,000.00	\$25,000.00	\$25,000.00
Linear Feet	\$31.00	\$6,200.00	\$7,000.00	\$7,000.00	\$7,000.00	\$6,200.00	\$7,000.00	\$6,000.00
Square F...	\$13.00	\$13,000.00	\$15,000.00	\$13,000.00	\$11,000.00	\$13,000.00	\$13,000.00	\$13,000.00
					☑		☑	
					\$500.00		☑	
					☑		☑	
							M DBE	
			\$47,000.00	\$0.00	\$11,000.00	\$30,200.00	\$13,000.00	\$31,000.00
			\$47,000.00	\$45,000.00	\$43,000.00	\$43,200.00	\$45,000.00	\$44,000.00

8.4.5 EXPORT QUOTE COMPARISON AND AWARD TO MICROSOFT EXCEL

The Microsoft Excel file generated when you export the Quote Comparison & Award form closely resembles the form in Estimate, so users of this output can more clearly understand what the estimators knew when they made determinations on which numbers to carry.

AutoSave QCB&A report 1 No Label - Last Modified: Just now Search Sunitha Jain

File Home Insert Page Layout Formulas Data Review View Automate Help Developer

Clipboard Font Alignment Number Styles Cells Editing Analysis Sensitivity

Calibri 11 A⁺ A⁻ Wrap Text General \$ % & # Conditional Formatting Format as Table Cell Styles Insert Delete Format AutoSum Fill Sort & Find & Select Analyze Data Sensitivity

A1 X Y CBS

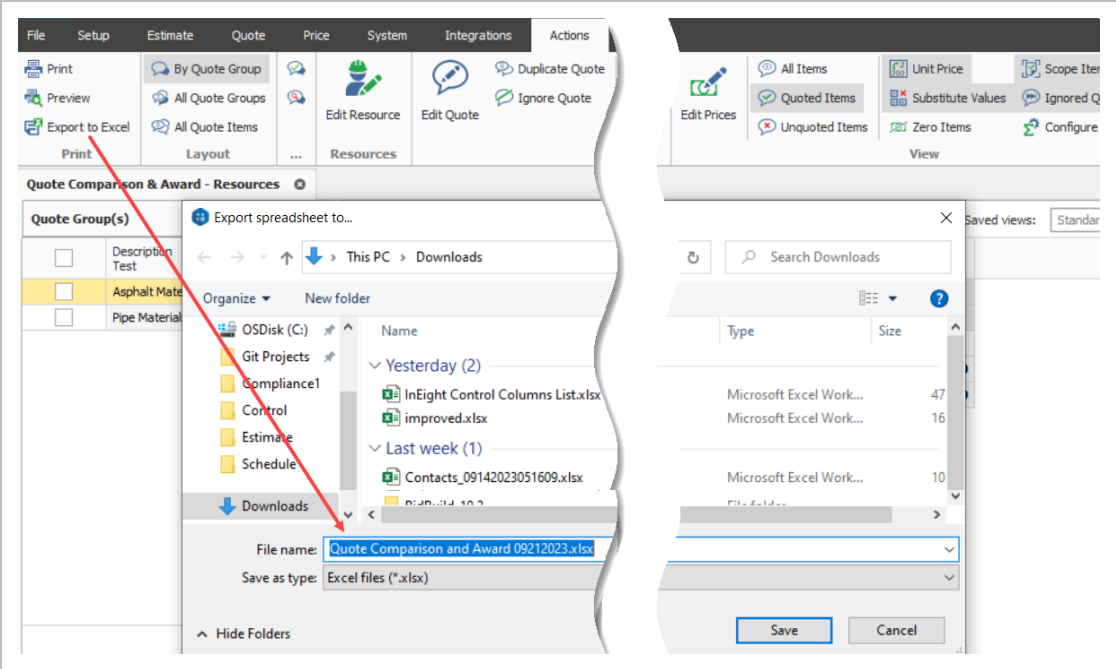
	E	F	G	H	I	J	K	L	M	N
1	Unit Cost	Total Cost	Plug	Detail	1_Vendor1	Cooper Outdoor Advertising Inc	WonderBoyB	WonderBoyB		
2	\$24.00	(Forecast)	\$24,000.00	\$25,000.00	Guard Rail Items	Guard Rail Items	Guard Rail Items	Guard Rail Items		
3	\$31.00		\$6,200.00	\$7,000.00		\$24,000.00	\$24,218.75	\$562,344,000.00	\$562,344,000.00	
4						\$6,200.00	\$6,781.25	\$145,272,200.00	\$145,272,200.00	
5										
6										
7										
8				\$0.00	\$0.00	\$30,200.00	\$31,000.00	\$707,616,200.00	\$707,616,200.00	
9				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13				\$32,000.00	\$0.00	\$30,200.00	\$31,000.00	\$707,616,200.00	\$707,616,200.00	
14				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15				\$32,000.00	\$0.00	\$30,200.00	\$31,000.00	\$707,616,200.00	\$707,616,200.00	
16				\$0.00	\$32,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17				\$32,000.00	\$32,000.00	\$30,200.00	\$31,000.00	\$707,616,200.00	\$707,616,200.00	
18				\$0.00	\$0.00	\$30,200.00	\$0.00	\$0.00	\$0.00	\$0.00
19					5/11/2023 2:38:01 AM	7/24/2023 11:24:01 PM	6/2/2023 12:29:38 AM	6/2/2023 12:37:37 AM		
20										
21										
22										
23										

Formatted Data Raw Data

Ready Accessibility: Investigate

The Quote Comparison & Award form changes frequently in the closing hours of a bid, which can prompt estimators to keep track of what the subcontractor and supplier quotes might have looked like at any point throughout the bid closing. Some estimators rely on such bid leveling information but do not want to access live information directly in the application, making it crucial to produce an identical output file of the Quote Compare & Award form at any given time.

To create the Quote Comparison & Award Excel file, click on the **Export to Excel** icon. Enter a file name for the Excel file, and then click **Save**.



8.4.6 ADDITIONAL QUOTE COMPARISON AND AWARD FUNCTIONS

The Quote Comparison and Award form contains other notable functions which improves the process of selecting the quote that brings the greatest value to the estimate.

Overview - Additional Quote Comparison and Award Functions

Name		Definition
1	Asterisk next to Quote Item	An Asterisk (*) is displayed on a quote to indicate when that quote includes quote items appearing in other Quote groups.
2	Zero value Plug/Detail	Award quotes to Plug or Detail when its value is zero.
3	Updated Quote Items Tool tip	Quote Item Tool tip displays details including: <ul style="list-style-type: none">• Unit Price• Extended Price• Bond• Taxes• Special Conditions• an indicator for a delta quote item

Quote Comparison & Award - Cost Items

Find: [Search For...] Saved views: Previous View

Description	Forecast (7/0) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Plug	Detail	CSH Concrete Construction, Inc. Concrete Placement	Knapp Construction Concrete Framework	Monri Concrete Contractors Concrete Placement	* Case Construction Concrete Framework
formwork	1.00	Lump Sum	\$2,339,113.70	\$2,339,113.70	\$3,281,200.00	\$2,525,200.00	\$2,525,200.00	\$2,525,200.00	\$2,525,200.00	\$2,339,113.70
place and finish	1.00	Lump Sum	\$0.00	\$0.00	\$375,500.00	\$0.00	\$285,000.00	\$285,000.00	\$294,000.00	\$0.00
Scope Items										
Summary										
Minority Type										
Notes										
Quoted Total					\$3,656,700.00	\$0.00	\$285,000.00	\$2,525,200.00	\$294,000.00	\$2,892,622.19
Comparable Total					\$3,656,700.00	\$2,525,200.00	\$2,810,200.00	\$2,810,200.00	\$2,819,200.00	\$2,892,622.19

Unit Price: \$2,339,113.70
Extended Price: \$2,339,113.70
Quote Tax: \$18,537.92
Bond: \$2,335.76
Special Conditions: \$1,000.00

8.4.7 CONFIGURE TOTALS

You can display and sort additional Summary Totals, Special Conditions, and Last Updated fields by selecting **Actions > Configure Tools**.

Configure Totals

	Caption	Visible	Sort
→	Seller	<input checked="" type="checkbox"/>	None
	Quote Description	<input checked="" type="checkbox"/>	None
	Minority Type	<input checked="" type="checkbox"/>	None
	Notes	<input checked="" type="checkbox"/>	None
	Extended Price	<input type="checkbox"/>	None
	Item Taxes	<input type="checkbox"/>	None
	Quote Tax	<input type="checkbox"/>	None
	Bond	<input type="checkbox"/>	None
	Item Conditions	<input type="checkbox"/>	None
	Quoted Items Total	<input type="checkbox"/>	None
	Special Conditions	<input type="checkbox"/>	None
	Quoted Total	<input checked="" type="checkbox"/>	None
	Substitute Values	<input type="checkbox"/>	None
	Comparable Total	<input checked="" type="checkbox"/>	Ascending
	Awarded Total	<input type="checkbox"/>	None
	Last Update	<input type="checkbox"/>	None

Options

Location: ☐ Top ☒ Bottom

OK Cancel

The Options radio button give you better control for viewing totals at the tops of the screen or after the quotes.

After selecting additional captions, the new fields appear at the bottom of the Quote Comparison & Award screen. Notice that the caret symbol next to the Comparable totals in the below screenshot indicates that the Quotes are sorted based on Comparable totals in an ascending order.

CBS Position Code	Description
18	Guardrail Type 2
19	Guardrail Type 3A
20	Type 4 Signs
	Scope Items
	Mobilization
	Survey/Layout
	Temporary Traffic control de...
	Summary
	Minority Type
	Notes
	Extended Price
	Item Taxes
	Quote Tax
	Bond
	Item Conditions
	Quoted Items Total
	Special Conditions
	Quoted Total
	Substitute Values
	Comparable Total <
	Awarded Total: \$43,200.00
	Last Update

8.4.8 ADDING NOTES TO QUOTE COMPARISON & AWARD

The Notes feature within the Configure Totals tool, allows you to quickly add, edit, and view notes for a quote in the Quote Comparison & Award form. Having visibility into the notes such as phone conversations with vendor/supplier, quotes that need clarification, or notes on other attributes will help you in making better decisions on who to consider when awarding a particular quote.

STEP BY STEP – ADD THE NOTES SECTION TO QUOTE COMPARISON & AWARD FORM

- 1. From the InEight Estimate landing page, select the **Quote** tab.
- 2. Select the **Resources** icon under Quote Comparison & Award.
 - Notice the absence of the Notes section. This is the default option until you follow the next steps.
- 3. Select the **Actions** tab.
- 4. From the View section, select the **Configure Totals** icon.

Print

Preview

Export to Excel

By Quote Group

All Quote Groups

All Quote Items

Set All to Reviewed

Set All to Not Reviewed

Edit Resource

Edit Quote

Duplicate Quote

Ignore Quote

Package Entire Quote

Edit Package

Award

Award And Lock

Lock

Unlock

Quoted Items

Edit Prices

Zero Items

Unit Price

Scope Items

Substitute Values

Configure Totals

Set Substitute Ranking

Ignored Quotes

Default Data Blocks

Session Recap

Auto Award

Print

Layout

Quote Group Status

Resources

Quotes

Cost Breakdown Structure (CBS) Register

Quote Register

Quote Comparison & Award - Resources

Tools

Drag columns here to group

Find: [Search For...]

Saved Views

Previous View

Resource Code	Description	Utilization Count	Unit of Measure	Unit Cost (Scale 1)	Plug	Detail	Example Vendor 1 Asphalt Materials	Example Vendor 2 Asphalt Materials	Example Vendor 3 Pipe Materials for site improvements	Example Vendor 4 DBE Pipe Materials		
MAM	Asphalt Mix (Fresh)	36,750.00	Ton	\$31.50	\$34.13	\$34.13	\$31.50	\$35.70	\$34.13	\$34.13		
MAR	Fine Aggregate	1,860.00	Ton	\$2.25	\$8.19	\$8.19	\$2.25	\$2.25	\$8.19	\$8.19		
MPP10	Pipe 10" PVC SDR31	12,600.00	Linear Feet	\$13.65	\$3.38	\$3.38	\$3.38	\$3.38	\$12.60	\$13.65		
MPP24	Pipe 24" PVC SDR35	3,000.00	Linear Feet	\$22.05	\$20.48	\$20.48	\$20.48	\$20.48	\$25.20	\$22.05		
MPP36	Pipe RCP 36 in	1,024.00	Linear Feet	\$32.55	\$34.13	\$34.13	\$34.13	\$34.13	\$31.50	\$32.55		
Scope Items												
Summary												
	Minority Type											DBE
	Quoted Total					\$1,406,973.75	\$0.00	\$1,171,100.70	\$1,325,646.00	\$266,616.00	\$271,471.20	
	Comparable Total	<				\$1,406,973.75	\$1,406,973.75	\$1,308,747.30	\$1,463,292.60	\$1,535,943.15	\$1,540,798.35	

- 5. Select the check box in the Visible column for the Notes caption.

Configure Totals

	Caption	Visible	Sort
	Seller	<input checked="" type="checkbox"/>	None
	Quote Description	<input checked="" type="checkbox"/>	None
	Minority Type	<input checked="" type="checkbox"/>	None
	Notes	<input checked="" type="checkbox"/>	None
	Extended Price	<input type="checkbox"/>	None
	Item Taxes	<input type="checkbox"/>	None
	Quote Tax	<input type="checkbox"/>	None
	Bond	<input type="checkbox"/>	None
	Item Conditions	<input type="checkbox"/>	None
	Quoted Items Total	<input type="checkbox"/>	None
	Special Conditions	<input type="checkbox"/>	None
	Quoted Total	<input checked="" type="checkbox"/>	None
	Substitute Values	<input type="checkbox"/>	None
	Comparable Total	<input checked="" type="checkbox"/>	Ascending
	Awarded Total	<input type="checkbox"/>	None

Options

Location: ☐ Top ☒ Bottom

OK

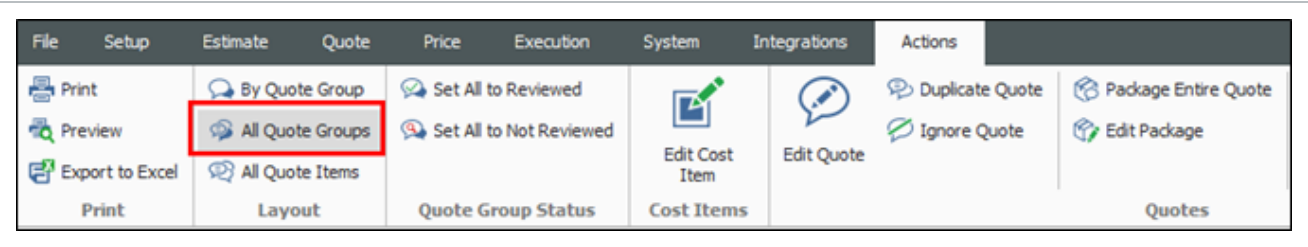
Cancel

6. Select **OK**.
- The Notes section displays on the Quote Comparison & Award form.

Cost Breakdown Structure (CBS) Register									
Quote Register									
Quote Comparison & Award - Resources									
Find: [Search For...] Saved views: Previous View									
Drag columns here to group									
Resource Code	Description	Utilization Count	Unit of Measure	Unit Cost (Scale 1)	Plug	Detail	Example Vendor 1 Asphalt Materials	Example Vendor 2 Asphalt Materials	Example Vendor 3 Pipe Materials for site improvements
MAAM	Asphalt Mix (Finish)	36,750.00	Ton	\$31.50	\$34.13	\$34.13	\$31.50	\$35.70	\$34.13
MAFA	Fine Aggregate	1,860.00	Ton	\$7.25	\$8.19	\$8.19	\$7.25	\$7.35	\$8.19
MPP10	Pipe 10" PVC SDR21	12,600.00	Linear Feet	\$13.65	\$3.28	\$3.28	\$3.28	\$3.28	\$12.60
MPP24	Pipe 24" PVC SDR35	3,000.00	Linear Feet	\$22.05	\$20.48	\$20.48	\$20.48	\$20.48	\$25.20
MPP36	Pipe RCP 36 in	1,024.00	Linear Feet	\$32.55	\$34.13	\$34.13	\$34.13	\$34.13	\$31.50
Scope Items									
Summary									
Minority Type									
Notes									
Quoted Total				\$1,406,973.75	\$0.00	Example Note	5.00	\$266,616.00	\$271,471.20
Comparable Total				\$1,406,973.75	\$1,406,973.75		2.60	\$1,535,943.15	\$1,540,798.35

8.4.9 ALL QUOTE GROUPS LAYOUT

The All Quote Group icon, located within the Quote Comparison and Award ribbon, allows you to see all the quote groups at the same time.



You can make appropriate quote group selections based on understanding how choosing a quote group impacts the entire estimate. In addition, the quote groups layout provides you with the visibility and flexibility in aligning scopes, and being able to perform an efficient comparison of various quotes.

Features of this layout include:

Overview - Quote Groups Layout

Name		Definition
1	Totals per Quote Group	Ability to see the Awarded Total Plug, Detail and Quote amount per Quote Group
2	Total Awarded Amount	Visibility into the Total Awarded Amount per Quote Group
3	Comparable totals	Better visibility into the Comparable totals per Quote Group
4	Expand/Collapse	Expand/Collapse individual or All Quote Groups to display the quote items

Print

Preview

Export to Excel

By Quote Group

All Quote Groups

All Quote Items

...

Resources

Edit Resource

Edit Quote

Duplicate Quote

Ignore Quote

Package Entire Quote

Edit Package

Award

Award And Lock

Edit Prices

Quoted Items

Unit Price

Substitute Values

Zero Items

Scope Items

Ignored Quotes

Print

Layout

...

Resources

Quotes

View

Cost Breakdown Structure (CBS) Register

Quote Comparison & Award - Resources

Drag columns here to group

Find:

Saved views:

Quote Group	Plug	Detail	Quote	Quote Group Total	
→ Asphalt Materials	\$0.00	\$0.00	\$1,171,100.70	\$1,171,100.70	1
Resource Code	Description	Utilization Count	Unit of Measure	Unit Cost (Scale 1)	
MAAM	Asphalt Mix (Finish)	36,750.00	Ton	\$31.50	
MAFA	Fine Aggregate	1,860.00	Ton	\$7.25	
Scope Items					
Summary					
Minority Type					
Quoted Total					
Comparable Total					2
Awarded Total: \$1,171,100.70					
→ Pipe Materials	\$0.00	\$0.00	\$271,471.20	\$271,471.20	
Resource Code	Description	Utilization Count	Unit of Measure	Unit Cost (Scale 1)	
MPP10	Pipe 10" PVC SDR21	12,600.00	Linear Feet	\$13.65	
MPP24	Pipe 24" PVC SDR35	3,000.00	Linear Feet	\$22.05	
MPR36	Pipe RCP 36 In	1,024.00	Linear Feet	\$32.55	
Scope Items					
Summary					
Minority Type					
Quoted Total					
Comparable Total					3
Awarded Total: \$271,471.20					

You can scan through all the quote groups in the estimate and see if you are carrying the most appropriate quote. You can also review the Totals per Quote Group and better analyze the risks in the estimate based on whether the cost is a plug number, detailed estimate or a quoted value.

8.4.10 COMPARE AND AWARD QUOTES

To award an item, right click on that item and select **Award**.

Example Sub #3 Sign Items	Example Sub #2 Guard Rail Items	Example Sub #4 DBE Sign Items
\$25,000.00	\$24,000.00	\$25,000.00
\$7,000.00	\$6,200.00	\$7,000.00
\$11,000.00	\$13,000.00	\$13,000.00
\$500.00		
\$11,000.00		
\$0.00		
\$0.00		

Award

Award And Lock

Lock

Unlock

Edit Quote

Duplicate Quote

Ignore Quote

Package Entire Quote



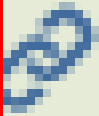
Edit Package

Edit Cost Item

Page 362 of 402

InEight Inc. | Release 25.7

The Award icon displays next to the awarded item(s).

Example Sub #2 Guard Rail Items	
	\$25,264.55
	\$24,000.00
 	\$6,200.00

Once you award a quote in InEight Estimate, you can see it adds the Awarded Total on the comparison screen, and the pricing updates automatically in the Cost Breakdown Structure.

CBS Position Code	Description	Forec... (T/O) Quan...	Unit of Me...	Unit Cost	Total Cost (Fore...	Plug	Detail	Example Sub #2 Guard Rail Items	Example Sub #1 Guard Rail Items
17	Toll Booth	1.00	Each	\$40,000...	\$40,0...	\$25,000.00	\$25,264.55	\$25,264.55	\$40,000.00
18	Guardrail Type 2	1,000.00	Linear ...	\$25.00	\$25,0...	\$25,000.00	\$50,000.00	\$24,000.00	\$25,000.00
19	Guardrail Type 3A	200.00	Linear ...	\$30.00	\$6,000...	\$7,000.00	\$7,000.00	\$6,200.00	\$6,000.00
20	Type 4 Signs	1,000.00	Square...	\$15.00	\$15,0...	\$15,000.00	\$14,000.00	\$14,000.00	\$14,000.00
27.1	Electrical Work	1.00	Each	\$5,000.00	\$5,000...	\$5,000.00	\$3,500.00	\$3,500.00	\$3,500.00
Summary									
	Minority Type								
	Quoted Total					\$77,000.00	\$25,264.55	\$30,200.00	\$71,000.00
	Comparable Total	<				\$77,000.00	\$99,764.55	\$72,964.55	\$88,500.00
	Awarded Total					\$20,000.00	\$0.00	\$0.00	\$71,000.00
	Quoted Items Total					\$77,000.00	\$25,264.55	\$30,200.00	\$71,000.00
	Special Conditions					\$0.00	\$0.00	\$0.00	\$0.00
	Last Update						7/29/2009 2:21:...	11/13/2019 9:0:...	

NOTE

You can award multiple Quote items by selecting all the items and then using the right click context menu to award.

8.4.10.1 OPEN STATUS

If a quote is yellow, this indicates that the quote record is open in another screen. Closing out of the quote record, will turn the record back to gray.

Drag columns here to group

Find: Search

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Plug	Detail	Example Sub #2 Guard Rail Items	Example Sub #1 Guard Rail Items	HD Engineering Group Concrete, Sitework
18	Guardrail Type 2	1,000.00	Linear Feet	\$24.00	\$24,000...	\$25,000.00	\$50,000.00	\$24,000.00	\$25,000.00	\$50,000.00
19	Guardrail Type 3A	200.00	Linear Feet	\$31.00	\$6,200.00	\$7,000.00	\$7,000.00	\$6,200.00	\$6,000.00	\$7,000.00
Scope Items										
Summary										
	Minority Type									
	Quoted Total					\$32,000.00	\$0.00	\$30,200.00	\$31,000.00	\$50,000.00
	Comparable Total	<				\$32,000.00	\$57,000.00	\$30,200.00	\$31,000.00	\$57,000.00

8.4.10.2 AWARD STATUS

The Award Status indicates whether or not all quotes are awarded within a quote group.

Quote Register			Quote Comparison & Award - Cost Items											
Quote Group(s)			Drag columns here to group											
<input checked="" type="checkbox"/>	Descript.	Reviewed												
<input checked="" type="checkbox"/>	Electrical Work													
<input checked="" type="checkbox"/>	Guardrail Work													
<input checked="" type="checkbox"/>	Sign Work													
CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Plug	Detail	Example Sub #2 Guard Rail Items	Example Sub #1 Guard Rail Items	Example Sub #4 DBE Sign Items	HD Engineering Group Electrical Work	HD Engineering Group Concrete, Sitework	Architectural Designs, Inc. Electrical Work	Example Sub #3 Sign Items
17	Toll Booth	1.00	Each	\$40,000.00	\$40,000.00	\$25,000.00	\$25,264.55	\$25,264.55	\$40,000.00	\$25,264.55	\$25,264.55	\$25,264.55	\$25,264.55	\$25,264.55
18	Guardrail Type 2	1,000.00	Linear Feet	\$25.00	\$25,000.00	\$25,000.00	\$50,000.00	\$24,000.00	\$25,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00
19	Guardrail Type 3A	200.00	Linear Feet	\$30.00	\$6,000.00	\$7,000.00	\$7,000.00	\$6,200.00	\$6,000.00	\$7,000.00	\$7,000.00	\$7,000.00	\$7,000.00	\$7,000.00
20	Type 4 Signs	1,000.00	Square Feet	\$15.00	\$15,000.00	\$15,000.00	\$15,000.00	\$14,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00
27.1	Electrical Work	1.00	Each	\$5,000.00	\$5,000.00	\$5,000.00	\$3,500.00	\$3,500.00	\$3,500.00	\$3,500.00	\$3,500.00	\$3,500.00	\$3,700.00	\$3,500.00
Summary														
Minority Type														
Quoted Total			\$77,000.00 \$25,264.55 \$30,200.00 \$71,000.00 \$13,000.00 \$4,450.00 \$50,000.00 \$4,200.00 \$300,000.00											
Comparable Total			\$77,000.00 \$98,764.55 \$71,964.55 \$87,500.00 \$98,764.55 \$98,764.55 \$98,764.55 \$98,964.55 \$385,764.55											

8.4.10.3 REVIEW

You can keep track of what quote groups have been reviewed by checking the Reviewed check box.

Quote Group(s) ×		
<input checked="" type="checkbox"/>	Description ≡	Reviewed
<input checked="" type="checkbox"/>	Electrical Work	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Guardrail Work	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Sign Work	<input type="checkbox"/>

This can be helpful when there are many quotes to track and several users managing them. If any changes are made to quotes within a quote group *after* the quote group is marked as Reviewed, the quote group will be highlighted in yellow to indicate something changed since the last review.

Quote Group(s) ×		
<input checked="" type="checkbox"/>	Description ≡	Reviewed
<input checked="" type="checkbox"/>	Electrical Work	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Guardrail Work	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Sign Work	<input checked="" type="checkbox"/>

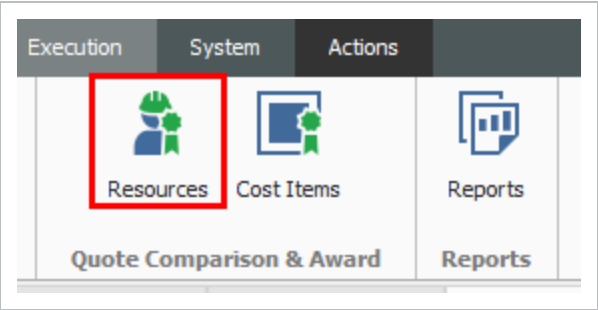
Once reviewed again after the changes, you can uncheck and check the Reviewed checkbox again to indicate it is up to date, and the yellow highlighting disappears.

The following steps walk you through comparing and awarding the Aggregate quotes.

STEP BY STEP – COMPARE AND AWARD QUOTES

This exercise walks through a specific example using the Training Job.

1. From the main Estimate landing page select **Quote>Quote Comparison & Award**.
2. Select **Resources** on the Quote Comparison & Award ribbon.



- 3. Under Quote Groups, select **Aggregates**.
- 4. Review the quotes to determine the lowest bidder:
 - MDIRTB is marked as Free for Example Vendor 4 and their quote is not splittable.
 - Vendor 2 Stan Mark did not give a quote for MDIRTB, so a substitute value is being used.
- 5. Vendor 2 has the lowest comparable amount for MBR Aggregate Base Rock and Vendor 1 has the lowest comparable amount for MDIRTB, so you decide to award each respectively. Award each of them by right-clicking on the value and selecting **Award**.
- 6. On the attention prompt click **Yes**.

8.4.11 PACKAGE ENTIRE QUOTE

The Package Entire Quote function allows you to mark an entire quote as a package. This is beneficial if you are attempting to quickly update an existing detailed quote to a lump sum quote from the Quote Record or Quote Compare and Award form.

Quote Comparison & Award - Cost Items									
columns here to group									
CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Plug	Detail	Harmon Construction Concrete, Sitework	Eagle Concrete Corp. Concrete, Sitework
3.1.1	Sidewalk	4,544.00	SQFT	\$9.89	\$44,939.07	\$44,939.07	\$44,939.07	P1 \$206,000.00	P1 \$242,500.00
3.1.2	V curb	50.00	LF	\$34.51	\$1,725.32	\$1,725.32	\$1,725.32	P1	P1
3.1.3	Curb and Gutter	1,250.00	LF	\$34.51	\$43,133.12	\$43,133.12	\$43,133.12	P1	P1
3.1.4	Valley gutter	50.00	LF	\$34.51	\$1,725.32	\$1,725.32	\$1,725.32	P1	P1
3.1.5	Handicap ramps	159.00	SQFT	\$9.89	\$1,572.47	\$1,572.47	\$1,572.47	P1	P1
3.1.6	Truncated domes	1.00	Lump Sum	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	P1	P1
3.1.7	Flow thru planter slab	125.00	LF	\$96.04	\$12,005.46	\$12,005.46	\$12,005.46	P1	P1
3.1.8	Flow thru planter walls	125.00	LF	\$96.04	\$12,005.46	\$12,005.46	\$12,005.46	P1	P1
3.1.9	Median Infill	225.00	CY	\$41.02	\$9,230.60	\$9,230.60	\$9,230.60	P1	P1
3.1.10	Rolled curb adjacent to...	50.00	LF	\$34.51	\$1,725.32	\$1,725.32	\$1,725.32	P1	P1
3.1.11	Reinforcing	2,612.40	lb	\$4.59	\$12,000.00	\$12,000.00	\$12,000.00	P1	P1

8.4.12 INCOMPLETE QUOTES

The Incomplete quotes status indicates if a quote includes quote items that do not yet have a price. This is often the case when vendors respond to an RFQ expressing interest in bidding but do not provide their prices until right before the bid is due. These quotes display in gray in the Quote Compare and Award form.

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Plug	Detail	Natomas Masonry, Inc. Masonry	Marquis Masonry Masonry	H.P. Construction Inc. Masonry
4.1.1	CMU Walls	1.00	Lump Sum	\$485,922.27	\$485,922.27	\$400,000.00	\$400,000.00	P1 \$512,648.00	\$526,724.53	P1 \$766,352.00
4.1.2	Precast Concrete Caps	1.00	Lump Sum	\$14,577.67	\$14,577.67	\$12,000.00	\$12,000.00	P1	\$12,375.47	P1
4.1.3	Steel Embeds	1.00	Lump Sum	\$12,148.06	\$12,148.06	\$10,000.00	\$10,000.00	P1	\$0.00	P1
Scope Items										
	Demolition									
	Caulking, Sealants &...									
	Scaffolding									
	Shoring/Bracing					\$15,000.00			\$12,000.00	
	Testing/Inspection									
Summary										
	Minority Type									
	Notes									

Incomplete Quotes that are Scope Only can be viewed in the Quote Compare and Award form using the **Zero Items** toggle. These are quotes that have none of the Items priced. These quotes are displayed to the right of all the Comparable Quotes.

Quote Group(s)	Description	CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Plug	Detail	Natomas Masonry, Inc. Masonry	H.P. Construction Inc. Masonry	Marquis Masonry Masonry
Concrete, Precast		4.1.1	CMU Walls	1.00	Lump Sum	\$1,879,705.33	\$1,879,705.33	\$4,400,000.00	\$1,708,826.67	P1 \$512,648.00	P1 \$766,352.00	\$0.00
Concrete, Structural		4.1.2	Precast Concrete Caps	1.00	Lump Sum	\$170,882.67	\$170,882.67	\$12,000.00	\$12,000.00	P1	P1	\$0.00
Doors & Windows		4.1.3	Steel Embeds	1.00	Lump Sum	\$170,882.67	\$170,882.67	\$10,000.00	\$10,000.00	P1	P1	\$0.00
Electrical		Scope Items										
Finishes (Div 5)			Demolition									
Fire Protection			Caulking, Sealants & Backer Rod									
Foundations			Scaffolding									
HVAC			Shoring/Bracing					\$15,000.00				
Landscaping Work			Testing/Inspection									
Masonry		Summary										
Plumbing			Minority Type									
Rubber Install			Notes									
Scaffolding			Quoted Total					\$4,422,000.00	\$1,708,826.67	\$512,648.00	\$574,764.00	\$0.00
Sheet Metal			Comparable Total					\$4,422,000.00	\$1,730,826.67	\$512,648.00	\$574,764.00	\$1,730,826.67
Sitework												

RELEVANT LINKS

Video - Compare and Award Subcontractors

8.5 SCOPE ITEMS

During the bidding process, it's common for subcontractors and suppliers to provide a quote(s) for work during the tail end of the bidding process. These last-minute offers make it extremely difficult for you to evaluate and compare the various quotes and your ability to award them. With **scope items**, you can create and evaluate checklists and quote group exclusions, and account for them within the Quote Comparison and Award form.

You can view scope items as a checklist of items that break down the quote's scope of work into individual tasks to aid in the process of evaluating subcontractor and supplier quotes in greater detail. This can be used to ensure that certain items of work are included or excluded. If excluded, the scope items need to be properly accounted for by contractor awarding the quote.

Overview - Quote Record - Scope Items

Section	Description
Seller's Special Terms & Conditions	By default, all scope items are considered included in the quote, and the Special Conditions amount is \$0.00. On the quote record, by selecting the checkbox, you can indicate scope items and uncheck items that are not included. The amount associated with these items will then total up in the Special Conditions subtotal. The person responsible for awarding quotes needs to update the Inclusions field to correspond with what the subcontractor has agreed to include in the quote.

Quote Tax

Add Taxes to the Quote: ☐ Yes ☒ No

TAXES to be added to awarded TOTAL as a % of total :

Tax Rate:

Total Tax:

Item Tax

☒ Add Item Taxes to each item's price

Buyer's Special Terms & Conditions

☒ Seller's Special Terms & Conditions

FIXED COST to be added to Seller's awarded total (any combination of items) :

Distribute Special Condition : ☒ Evenly ☐ Using weighted average

☒ Include Special Conditions costs for unawarded quotes in Comparable Totals

Drag columns here to group

Find:

Saved views:

Row Number	Scope Item	Quote Group	Included	Amount	% of Total	Notes
→ 1	Permits	Electrical Work	<input checked="" type="checkbox"/>			
2	Surveying and Layout	Electrical Work	<input type="checkbox"/>	<input type="text" value="\$500.00"/>	14.29	
3	Temporary Traffic Control Devices	Electrical Work	<input checked="" type="checkbox"/>			
4	Trench and Backfill for Electrical W...	Electrical Work	<input checked="" type="checkbox"/>			
\$950.00						

Special Terms & Conditions

Qualifications

Packages

Seller's Profile

Setup

Minority

Overview - Quote Comparison and Award - Scope Items

Section		Description
1	Scope Items	Quote Comparison and Award checklist items for your quote that help with evaluating subcontractor and supplier quotes in greater detail. This is used to ensure certain items are either included (inclusion) or excluded (exclusion) in the quote and accounted for by the entity awarding the quote.
2	Scope Item Inclusions	Maintained in Quote Record form. These are the Seller's Special Terms & Conditions scope items that the subcontractor is including in their quote price. When the scope item contains a value, the subcontractor is agreeing to perform the work.
3	Scope Item Exclusions	Maintained in Quote record form. These are the Seller's Special Terms & Conditions scope items price. If the Inclusions checkbox is blank, the

Overview - Quote Comparison and Award - Scope Items (continued)

Section		Description
		subcontractor is NOT agreeing to perform the scope items.
4	Scope Item value	An entered value means that the subcontractor is excluding this scope of work. However, you may add an amount because this scope could incur a cost. Once the bid is awarded, you may find another subcontractor to perform the work. You are simply accounting for a cost for this scope of work. In the example below, HD Engineering is not going to paint the electrical equipment, but you know the cost is \$150.00. You are showing this cost to account the cost for this scope of work that needs to happen.
5	Seller's Special Terms & Conditions	By default, all scope items are considered included in the quote, and the Special Conditions amount is \$0.00. On the quote record, by selecting this checkbox, you can indicate scope items and uncheck items that are not included. The amount associated with these items will then total up in the Special Conditions subtotal. The person responsible for awarding quotes needs to update the Inclusions field to correspond with what the subcontractor has agreed to include in the quote.

Cost Breakdown Structure (CBS) Register			Quote Register	Quote Comparison & Award - Cost items									
Quote Group(s)			Drag columns here to group										
<input type="checkbox"/>	Description	Reviewed	CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Me...	Unit Cost	Total Cost (Forecast)	Plug	Detail	Architectural Designs, Inc. Electrical Work	HD Engineering Group Electrical Work	
<input checked="" type="checkbox"/>	Electrical Work	<input type="checkbox"/>	27.1	Electrical Work	1.00	Each	\$4,200.00	\$4,200.00	\$5,000.00	\$4,200.00	\$4,200.00	\$4,450.00	
<input type="checkbox"/>	Electrical work 2	<input type="checkbox"/>		Scope Items									
<input type="checkbox"/>	Electrical work 3	<input type="checkbox"/>		Permits									
<input type="checkbox"/>	Guardrail Work	<input type="checkbox"/>		Surveying and Layout							\$500.00	\$500.00	
<input type="checkbox"/>	Pipe Materials	<input type="checkbox"/>		Temporary Traffic Control Devices									
<input type="checkbox"/>	Sign Work	<input type="checkbox"/>		Trench and Backfill for Electrical Work									
				Painting Electrical Equipment								\$150.00	
				Temporary Power and Lighting								\$300.00	
				Summary									
				Minority Type									
				Quoted Total					\$5,000.00	\$0.00	\$4,200.00	\$4,450.00	
				Comparable Total	<				\$5,000.00	\$4,200.00	\$4,200.00	\$4,450.00	
				Awarded Total					\$0.00	\$0.00	\$4,200.00	\$0.00	
				Quoted Items Total					\$5,000.00	\$0.00	\$3,700.00	\$3,500.00	
				Special Conditions					\$0.00	\$0.00	\$500.00	\$950.00	
				Last Update							11/13/2019 1:0...	11/13/2019 3:5...	

The example below in the Quote Register form shows quotes from two subcontractors, both with different quote prices. It is important to understand all scope of work the subs are quoting. By just viewing these quotes alone, it's difficult to understand which quote will provide you with the best value. In other words, just because Example Sub #3 is the lowest priced quote, does not mean it is the best quote to go with.

Quote Register										
Drag columns here to group										
	Description	RFQ Description	Quote Status	Seller	Company	Quote Total	Awarded Total	Currency	Awarded	Awarded Status
	Electrical Work	Electrical Work	Accepted	Example Sub #5 MBE -- Chr...	Example Sub #5 MBE	\$4,450.00	\$0.00	U.S. Dollar	<input type="checkbox"/>	None
	Electrical Work	Electrical Work	Accepted	Example Sub #3 -- Frank M...	Example Sub #3	\$4,200.00	\$0.00	U.S. Dollar	<input type="checkbox"/>	None

The example below in Quote Comparison and Award shows that HD Engineering Group is excluding 3 scope items in their quote that totals \$950. This provides a more granular picture for what is being included within each subcontractor's scope of work. It also displays how much each scope of work costs, so you have the option to find another subcontractor to perform this scope work.

Quote Comparison & Award - Cost items										
g columns here to group										
CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Me...	Unit Cost	Total Cost (Forecast)	Plug	Detail	Architectural Designs, Inc. Electrical Work	HD Engineering Group Electrical Work	
27.1	Electrical Work	1.00	Each	\$4,200.00	\$4,200.00	\$5,000.00	\$4,200.00	\$4,200.00	\$4,450.00	
Scope Items										
	Permits							<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Surveying and Layout							\$500.00		\$500.00
	Temporary Traffic Control Devices							<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Trench and Backfill for Electrical Work							<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Painting Electrical Equipment							<input type="checkbox"/>		\$150.00
	Temporary Power and Lighting							<input type="checkbox"/>		\$300.00
Summary										
	Minority Type									
	Quoted Total					\$5,000.00	\$0.00	\$4,200.00		\$4,450.00
	Comparable Total	<				\$5,000.00	\$4,200.00	\$4,200.00		\$4,450.00
	Awarded Total					\$0.00	\$0.00	\$4,200.00		\$0.00
	Quoted Items Total					\$5,000.00	\$0.00	\$3,700.00		\$3,500.00
	Special Conditions					\$0.00	\$0.00	\$500.00		\$950.00
	Last Update							11/13/2019 1:0...		11/13/2019 3:5...

Utilizing Scope Items enables you to more effectively compare quotes from subcontractors and suppliers by providing a deeper comparison of quotes. Moreover, it provides clearer visibility of what a proposal may or may not be including at the time you are attempting to make an award.

You can make a more informed decision on whom to award the quote to, now that the vendor quotes and associated scope items are all visible on one screen.

8.5.1 SCOPE ITEM SETUP

Scope items are stored within each quote group tag in the Foundation Setup Data form. On each Quote Group Tag Record, you can list out scope items that break down the work into smaller scopes of work, along with the estimated cost amount associated with each scope item.

Foundation Setup Data Register

Quote Group Tag Record ✕

Description: * Electrical Work

Award Status: Complete

Reviewed: ☐

Last Reviewed:

Quote Last Changed:

Drag columns here to group

Row Nu...	Scope Item	Amount	% of Total
1	Permits	\$0.00	
2	Surveying and Layout	\$500.00	
3	Temporary Traffic Control Devices	\$0.00	
4	Trench and Backfill for Electrical Work	\$0.00	
5	Painting Electrical Equipment	\$0.00	
6	Temporary Power and Lighting	\$300.00	
→			

STEP BY STEP – SET UP SCOPE ITEMS

This exercise walks through a specific example using the Training Job.

1. Open your job.
2. Select the **Setup** tab.
3. Click on **Foundation Data Setup** in the Initialize section.
4. Select the **Quote group tags** tab to set up scope items within a quote group.
5. Create a new Quote Group Tag called **Electrical Work** and click **Ok**.
6. Open **Electrical Work** and add the following scope items:
 - Permits
 - Surveying and Layout
 - Temporary Traffic Control Devices
 - Trench and Backfill for Electrical Work

- Painting Electrical Equipment
 - Temporary Power and Lighting
- Enter **500** in the Amount field for Survey and Layout, and a **300** for Temporary Power and Lighting.
 - Click **Ok**.

Row Number		Scope Item	Amount	% of Total
1		Permits	\$0.00	
2		Surveying and Layout	\$500.00	
3		Temporary Traffic Control Devices	\$0.00	
4		Trench and Backfill for Electrical Work	\$0.00	
5		Painting Electrical Equipment	\$0.00	
6		Temporary Power and Lighting	\$300.00	

STEP BY STEP – SET UP QUOTES FOR SCOPE ITEMS

This exercise walks through a specific example using the Training Job.

- From the **Estimate** tab, click on **Cost Breakdown Structure (CBS)**.
- Change your saved views to **Quote Group Setup view**.
- Create a cost item **Entry Gate** with a subordinate **Electrical Work**.
- Assign the **Electrical Work** quote group to the Electrical work cost item.
- From the Quote tab, click **Request for Quote (RFQ)** to open the RFQ register.
- Create an RFQ by selecting the **New** icon on the Actions tab.
- Select **Create RFQ from Quote Group Tag(s)** and select **Electrical Work**.
- Click **Ok**.
- Click on the **Seller Companies** tab and select the following company names:
 - Architectural Designs
 - HD Engineering Group

10. Highlight both companies and select **Publish**.
11. Assuming you've already received quotes back from both companies, create a quote from this RFQ for both companies by selecting the companies and selecting **Create Quote**.
12. Click **Ok** to close the RFQ record.

Description	RFQ Description	Quote Status	Seller
[Enter Description]		Invalid	<Ad-Hoc Address>
[Enter Description]		Invalid	<Ad-Hoc Address>
Aggregates	Aggregates	Received	Example Vendor 1 -- P
Aggregates	Aggregates	Received	Example Vendor 4 DBE
Aggregates	Aggregates	Received	Example Vendor 2 -- S
Asphalt Materials		Received	Example Vendor 1 -- P
Asphalt Materials		Received	Example Vendor 2 -- S
Concrete, Sitework		Ignored	HD Engineering Group
Electrical Work	Electrical Work	Received	Architectural Designs
Electrical Work	Electrical Work	Received	HD Engineering Group

8.5.2 SCOPE ITEM CREATION AND AWARD

The following Step by Step assumes you are putting out an advertisement for bids for some electrical work on a project. You will add scope items with some fixed costs as a special condition, then will compare quotes in order to decide which vendor quote is the best deal.

STEP BY STEP – MANAGE AND AWARD SCOPE ITEMS

This exercise walks through a specific example using the Training Job.

1. Click the **Quote** tab and then click the **Quotes** icon to open the Quote register.
2. Open the Quote Record for HD Engineering Group and enter a Unit Price of **3,500** which is based on the quote you received.

3. Select the **Special Terms & Conditions** tab and select the **Seller's Special Terms & Conditions** radio button.
4. Assuming the HD Engineering is excluding certain scope items from this quote, click on the **Included** checkbox to exclude (uncheck) the following scope items:
 - Surveying and Layout
 - Painting Electrical Equipment
 - Temporary Power and Lighting
5. Type **150** in the Amount field for Electrical Equipment.
 - Notice how the 3 scope items you just excluded are now added to the Special Conditions total for the quote.
6. Click **Next** to move to the other Quote record for Architectural Designs.
7. Enter a Unit Price of **3,700**.
8. Press **Tab** to move to the **Special Terms & Conditions** tab and select the **Seller's Special Terms & Conditions** (at right) radio button.
9. Uncheck the inclusions checkbox for **Surveying and Layout**.
10. Add the amount **500**.
11. Click **Ok**.
12. Select the **Quote** tab.
13. Open the **Quote Comparison and Award** form, and select the **Cost Items** tab.
14. Under Quote Groups, select **Electrical work**.
15. Right-click on the quoted amount for Architectural Design and select **Award** to award the work to them.
16. Click **Yes** on the resulting prompt to mark the quote group as reviewed.

8.6 QUOTE ITEM ADJUSTMENT

Quote items can be adjusted even after a quote has been awarded. This could happen on closing day when a vendor sends in a last minute discount. For example, vendor 3 has sent in a 10% discount on piping materials. This percentage discount is applied to the vendor 3 quote by entering the 10% in the Condition Adjustment column.

STEP BY STEP – QUOTE ITEM ADJUSTMENT

From the Ribbon, select the **Quote** tab.

1. Under the Quote Comparison and Award section, select **Resources**.
2. Locate a **Vendor** column.
3. Select the quote you want to edit under the vendor column. In the Ribbon, select the **Actions** tab.
4. Under the Quotes section, select **Edit Quote**. You can also right-click and select **Edit Quote**. This launches the Quote Record.
5. You can make Condition Adjustments by a percentage or an amount. Select the field to adjust the percentage or amount of the **Condition Adjustments**.
6. Items adjustments can be applied individually or by using the multi-edit function. Select multiple resources in the Quote Record, then right-click and select **Open**. This opens the Quote Resource Item Record.
7. If you populate a 10% discount adjustment to all of the items selected using the multi-edit tool, the amount value changes to “Varies”. This is because of the variance in the unit rates for each selected item.
8. Click **Ok** to save the changes to the line items in the Quote record and to save the Quote.

LESSON 8 REVIEW

1. When you receive responses to your RFQ, the next step is to enter their pricing in the _____.
 - a. CBS Register
 - b. PBS
 - c. Quote Register
 - d. RFQ Register
2. On a Quote Record, No Split means
 - a. The quote must be combined with other quotes from the same vendor
 - b. All items on the quote must be purchased from that seller
 - c. You can't split the quote into multiple quotes
3. When a quote group is highlighted in yellow on the Quote Comparison & Award form, it signifies that
 - a. The quote group has changed since it was last marked as Reviewed
 - b. No quotes have been awarded for that quote group
 - c. There are some quotes in the quote group that contain substitute values

LESSON 8 SUMMARY

As a result of this lesson, you can:

- Create and publish RFQs
- Define quote pricing
- Compare and award quotes
- Create and analyze scope items

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LESSON 9 – FINALIZE THE ESTIMATE

This lesson is primarily suited towards contractors who must add profit or markup to their total estimated cost, which will be submitted in the form of a bid or proposal. Most owners can divert from this lesson as it's more geared towards adding profit and markup. There are a few use cases in which an owner may wish to use the price breakdown structure. For example: to add risk, contingency, or reserves if it is preferred, these are not shown directly in the budget line items. The price breakdown structure also provides a summary level review of the total estimate and is a great reference during estimate reviews.

LESSON DURATION: 45 MINUTES


LESSON OBJECTIVES

After completing this lesson, you will be able to:

- Add job markup (profit)
- Use tools on the PBS form to review your estimate
- Spread Target Price over pay items
- Make bid adjustments

LESSON TOPICS

9.1 JOB MARKUP (PROFIT)

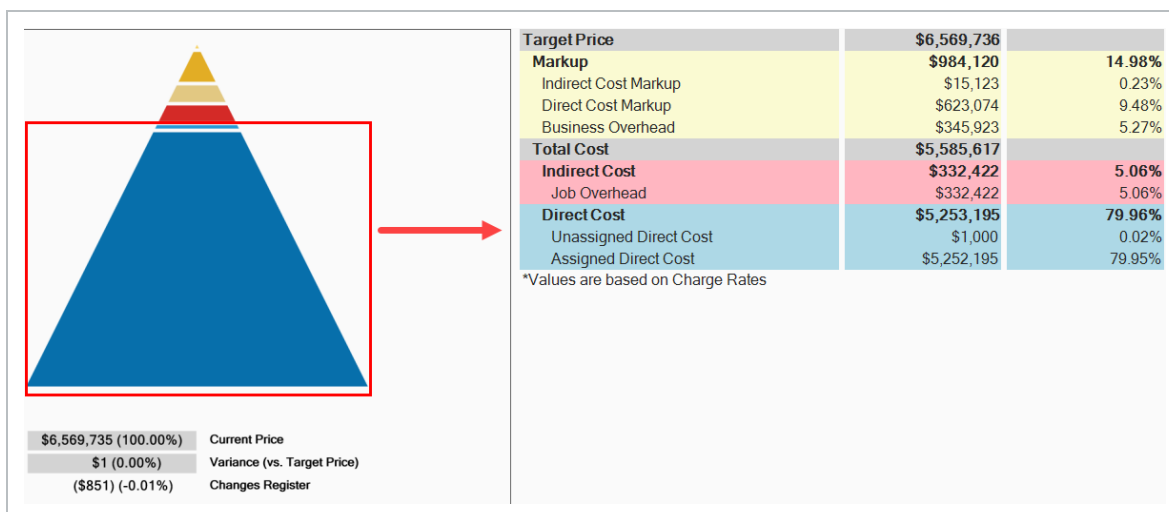
On the Data Map  notice how the different segments within the pyramid coincide with the percentage amounts that make up Direct Costs, Indirect Costs and Target Profit. Illustrations below show how the Data Map values correspond to the values that make up the cost and profit.

To open the Data Map, select the Price tab, then Data Map from the Overhead and Profit section.

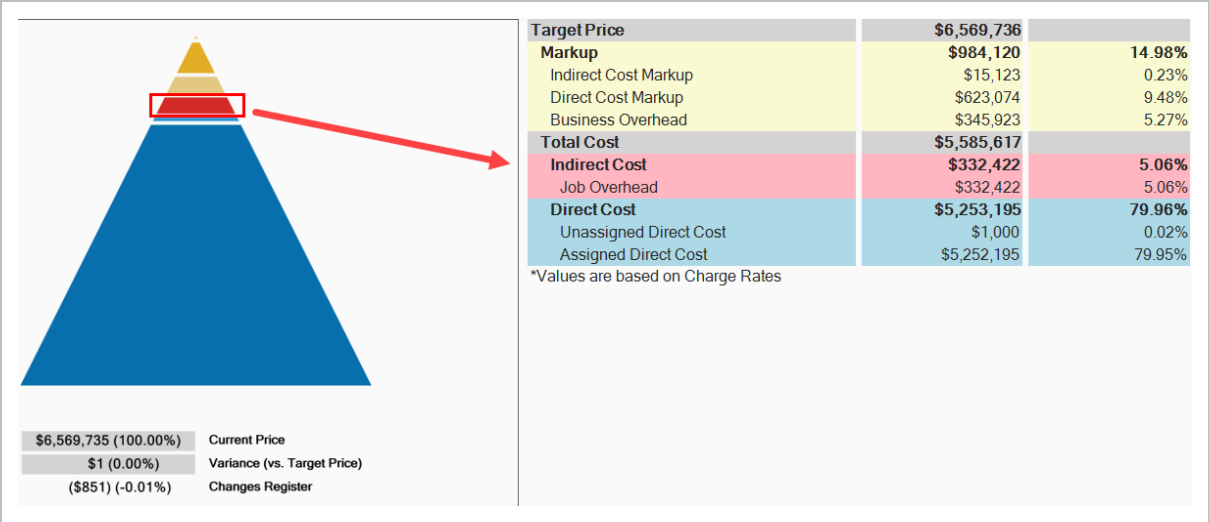
9.1.1 TARGET PRICE

For contractors building the price of your project is like building a pyramid. The foundation of your price consists of the direct costs of the job.

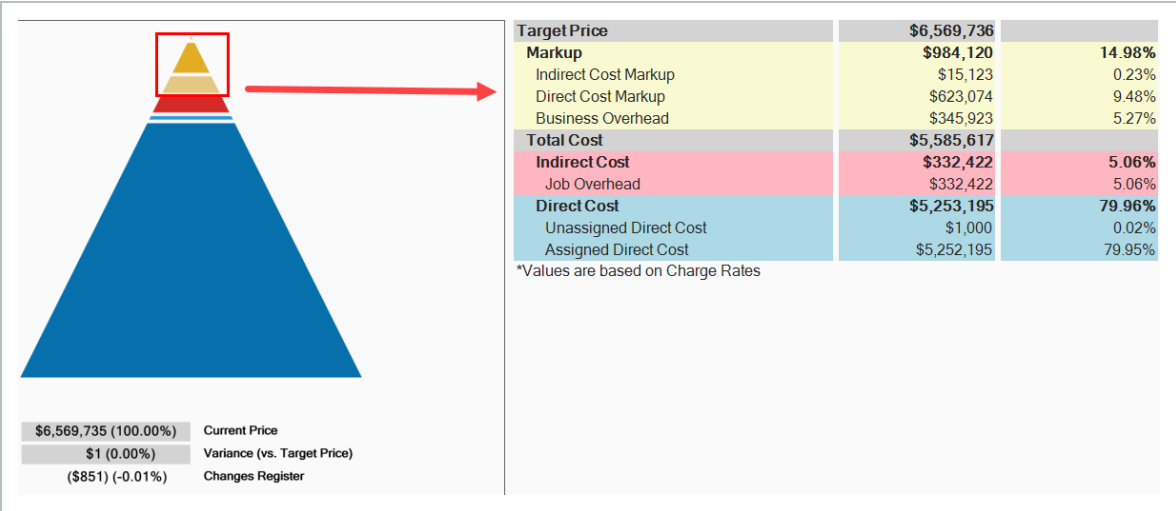
The images below represent a default examples.



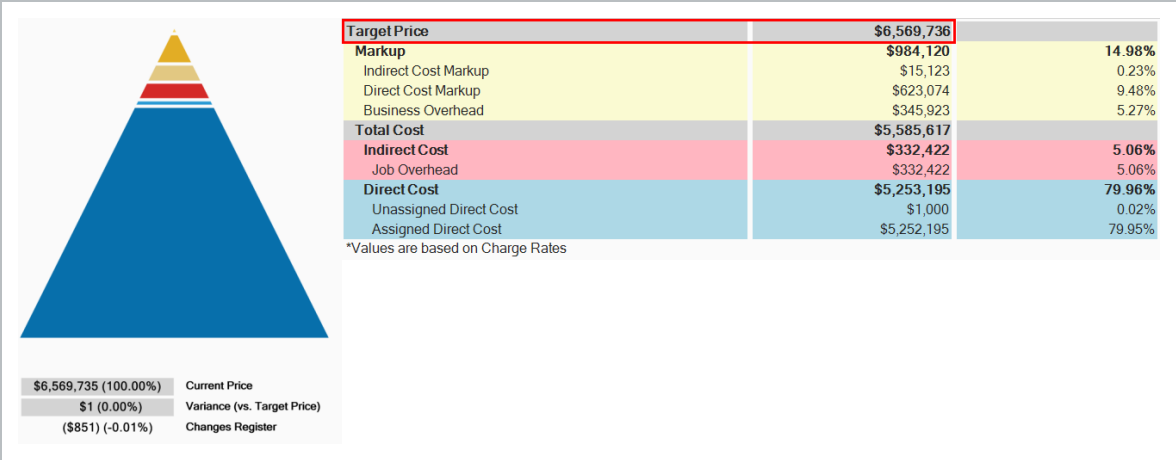
On top of your direct costs, you can decide if costs with a cost segment of business overhead should be indirect costs or markup. You estimate your direct and indirect costs in the CBS Register.



At the top of the pyramid you add an amount for profit. You add profit in the Price Breakdown Structure (PBS) form. There is a very small block at the top of the Data Map, which comprises 0.22% of Indirect Cost Markup.



The total of the direct cost, indirect cost, and profit in the project is referred to in InEight Estimate as the Target Price. This is the final price that you want to submit as your proposal.



9.1.2 PRICE BREAKDOWN STRUCTURE

As you already practiced, your direct and indirect costs are estimated in the CBS. Your project’s profit needs to be defined in the Price Breakdown Structure (PBS) form.

The main purpose of the Price Breakdown Structure (PBS) is to add markup (profit) to the estimate. The Price Breakdown Structure is a visual run-down of the costs and profit that make up your Target Price. It helps you analyze how your costs contribute to the price you are targeting, including the amount of profit you would like to include.

You can open the PBS from the InEight Estimate landing page by selecting the **Price** tab, then **Price Breakdown Structure (PBS)** from the Overhead and Profit section.

Overview - Price Breakdown Structure

Name		Definition
1	PBS Description	The left side of the screen displays several cost classifications: <ul style="list-style-type: none">Target ProfitBusiness OverheadJob OverheadDirect Cost
2	Various Columns	The Assigned and Unassigned columns show which costs are either assigned or not assigned to pay items. Unassigned costs are spread back to pay items based on the distribution logic set in Job Properties > Pricing. The Total columns represents a summation of both columns. Each layer displays with an amount, and the percentage of the Target

Overview - Price Breakdown Structure (continued)

Name	Definition
	Price that this amount represents.
3 PBS Menu	The right side of the screen holds several tabbed pages of information. This information is useful in analyzing the job at a summary level.
4 Refresh Data	To ensure that you are always reviewing the most up-to-date factors and ratios, click the Refresh Summary Data button whenever you are reviewing the data.

Description	Assigned	Unassigned	Total	% of Target
Price Breakdown Structure				
Target Price	\$5,252.19	\$1,317.54	\$6,569.73	100.00
Markup	\$0.00	\$984,119.62	\$984,119.62	14.98
Target Profit	\$638,196.32	\$638,196.32	\$1,276,392.64	9.71
Indirect Cost Markup	\$15,122.66	\$15,122.66	\$30,245.32	0.23
Direct Cost Markup	\$623,073.66	\$623,073.66	\$1,246,147.32	9.48
Business Overhead	\$0.00	\$345,923.30	\$345,923.30	5.27
Price % Add-On	\$0.00	\$295,638.13	\$295,638.13	4.50
Job Financing	\$0.00	\$33,105.26	\$33,105.26	0.50
Indirect Cost Escalation	\$0.00	\$2,131.11	\$2,131.11	0.03
Direct Cost Escalation	\$0.00	\$15,048.80	\$15,048.80	0.23
Business Overhead	\$0.00	\$0.00	\$0.00	0.00
Total Cost	\$5,252.19	\$333,421.97	\$338,674.16	85.02
Indirect Cost	\$0.00	\$332,421.97	\$332,421.97	5.06
Job Overhead	\$0.00	\$332,421.97	\$332,421.97	5.06
Prime Bond	\$0.00	\$47,148.68	\$47,148.68	0.72
Indirect Cost A	\$0.00	\$5,888.67	\$5,888.67	0.09
Direct Cost Add	\$0.00	\$104,088.34	\$104,088.34	1.58
Job Overhead 1	\$0.00	\$175,296.28	\$175,296.28	2.67
Direct Cost	\$5,252.19	\$1,000.00	\$6,252.19	79.96
Direct Cost Items	\$5,252.19	\$1,000.00	\$6,252.19	79.96

Markup Analysis	Price Status	Cost Source	Resource Utilization	Minority Goals	Subcontract Status	Vendor Status
Markup as % of	All Costs (Target Price - Markup)					17.62
Markup as % of	All Labor Costs					122.70
Markup as % of	All Direct Labor Costs					142.11
Markup as % of	All Indirect Labor Costs					898.32
Markup as % of	All Owned Equipment and Rented Equipment Costs					101.26
Markup as % of	All OE Ownership and RE Rental Costs					239.23
Markup as % of	All OE Operation and RE Operation Costs					177.02
Markup as % of	All Materials Costs					28.61
Markup as % of	All Supplies Costs					3571.02
Markup as % of	All Subcontract Costs					900.51
Markup per Manhour						\$36.80
Markup per Equipment hour						\$61.84

TIP

All costs in the Price Breakdown Structure are based on pay quantities (not forecast take-off quantities).

9.1.3 MARKUP VS. MARGIN

Let's look at the difference between Markup and Margin.

- Markup is a function of cost, while margin is a function of price
- Markup indicates how much you are marking up the cost
- Margin indicates what percentage of your price the markup represents

The percentages on the main PBS screen are margin, so you can see what percentage each category in the PBS represents compared to the total price. If you enter 10% in the Target Profit field, your profit will be 10% margin of your total price.

Description	Assigned	Unassigned	Total	% of Target
▼ Price Breakdown Structure				
▼ Target Price	\$5,252,19...	\$1,317,54...	\$6,569,73...	100.00
▼ Markup	\$0.00	\$984,119.62	\$984,119.62	14.98
▶ Target Profit		\$638,196.32	\$638,196.32	9.71
▶ Business Overhead	\$0.00	\$345,923.30	\$345,923.30	5.27
▼ Total Cost	\$5,252,19...	\$333,421.97	\$5,585,61...	85.02

When you open the Direct or Indirect Markup Records, the Rate percentage there indicates markup of the cost. If you enter 10% markup on \$100, the markup will be \$10.

Within Job Properties, you can choose if costs with a cost segment of business overhead should be indirect costs or markup. If selecting markup, then Business Overhead will be spread within the Markup category of the Price Breakdown Structure. The Total Markup will be the sum of Target Profit and all Items categorized as Business Overhead.

The screenshot shows the 'Job Properties' dialog box with the 'Markup Options' section expanded. Under 'Categorize Business Overhead as:', the 'Markup' radio button is selected and highlighted with a red rectangle. Other options include 'Indirect Cost' and 'Using Weighted Distribution'.

This lets you see the true total cost of the job, including the total markup inclusive of the business overhead. You can also create cost items and categorize them as business overhead, then possibly include overhead costs such as estimating or home office expenses. This provides you with added flexibility in marking up your job.

9.1.4 DEFINE PROFIT

Before you define profit, review the PBS. You estimated your direct cost items, and you also estimated some indirect cost items in the CBS. You can view your direct and indirect cost totals on the Price Breakdown Structure. Notice you have not defined profit yet.

Description	Assigned	Unassigned	Total	% of Target
▼ Price Breakdown Structure				
▼ Target Price	\$5,252,19...	\$645,755.99	\$5,897,950.68	100.00
▼ Markup	\$0.00	\$315,692.95	\$315,692.95	5.35
▼ Target Profit		\$0.00	\$0.00	0.00
Indirect Cost Markup		\$0.00	\$0.00	0.00
Direct Cost Markup		\$0.00	\$0.00	0.00
▼ Business Overhead	\$0.00	\$315,692.95	\$315,692.95	5.35
<input type="checkbox"/> Price % Add-On	\$0.00	\$265,407.78	\$265,407.78	4.50
<input type="checkbox"/> Job Financing	\$0.00	\$33,105.26	\$33,105.26	0.56
<input type="checkbox"/> Indirect Cost Escala...	\$0.00	\$2,131.11	\$2,131.11	0.04
<input type="checkbox"/> Direct Cost Escalation	\$0.00	\$15,048.80	\$15,048.80	0.26
<input checked="" type="checkbox"/> Business Overhead ...	\$0.00	\$0.00	\$0.00	0.00
▼ Total Cost	\$5,252,19...	\$330,063.05	\$5,582,257.73	94.65
▼ Indirect Cost	\$0.00	\$329,063.05	\$329,063.05	5.58
▼ Job Overhead	\$0.00	\$329,063.05	\$329,063.05	5.58
<input type="checkbox"/> Prime Bond	\$0.00	\$43,789.75	\$43,789.75	0.74
<input type="checkbox"/> Indirect Cost A...	\$0.00	\$5,888.67	\$5,888.67	0.10
<input type="checkbox"/> Direct Cost Add...	\$0.00	\$104,088.34	\$104,088.34	1.76
<input checked="" type="checkbox"/> Job Overhead I...	\$0.00	\$175,296.28	\$175,296.28	2.97
▼ Direct Cost	\$5,252,19...	\$1,000.00	\$5,253,194.68	89.07
<input checked="" type="checkbox"/> Direct Cost Items	\$5,252,19...	\$1,000.00	\$5,253,194.68	89.07

You can define profit by entering a profit percentage directly on the PBS, or by modifying the Direct or Indirect Cost Markup Records.

The following steps walk you through plugging a Target Profit percentage directly on the PBS form.

9.1.4.1 PROFIT AS A PERCENTAGE OF TARGET PRICE

STEP BY STEP – ADD PROFIT AS A PERCENTAGE OF TARGET PRICE

1. Open your job.
2. Select the **Price** tab.

3. Select **Price Breakdown Structure** (PBS) from the Overhead and Profit section.
4. On the Target Profit row, enter a **numeric value** in the % of Target Price column; press **Tab**.
 - For this example, we'll add 10% for the Target Profit.

9.1.4.2 PROFIT THROUGH DIRECT COST MARKUP RECORD

The following steps walk you through how to add profit as markup on the Direct Cost Markup record.

STEP BY STEP – MODIFY THE DIRECT COST MARKUP RECORD

1. On the **PBS** form, double-click on the **Direct Cost Markup** row.
2. In the record, overwrite the Default entry with **Direct Cost Markup** in the description field.
3. In the Rate column on the Dependency Cost Breakdown, add a **numeric value** in Labor, Owned Equipment, Materials and Fees categories. Then reset other categories back to **0**.
4. Click **Ok** to save your changes and return to the PBS.
5. Click the **Refresh Summary Data** button to see the changes reflected.
 - For this example, we'll add a rate of 15 for Labor, 10 for Owned Equipment, 8 for Materials, and 2 for Fees, then zero out all other categories.

Description	Dependency	Allocation
Drag columns here to group		
Saved views: Previous View		
Description	Currency	Total Cost (Forecast)
→ Direct Cost Markup	U.S. Dollar	\$13,081.82
*		

Cost Breakdown			
Cost Category	Subject Cost	Rate	Cost
▼ Total	\$102,786...	12.73	\$13,081.82
> Labor	\$57,792.70	15.00	\$8,668.91
> Owned Equipment	\$41,455.92	10.00	\$4,145.59
> Rented Equipment	\$0.00	0.00	\$0.00
> Supplies	\$0.00	0.00	\$0.00
> Materials	\$3,276.00	8.00	\$262.08
> Subcontract	\$0.00	0.00	\$0.00
> Fees	\$262.08	2.00	\$5.24
> Allowance	\$0.00	0.00	\$0.00
Custom Category1	\$0.00	0.00	\$0.00
Undefined	\$0.00	0.00	\$0.00

9.2 COST ESTIMATE AUDIT/REVIEW

InEight Estimate offers built-in reports to double check your estimate and review different aspects of your project, including material costs, quotes, man-hours and production.

9.2.1 PRICE BREAKDOWN STRUCTURE TABS

The purpose of the tabs on the Price Breakdown Structure is to assist with estimate reviews.

Markup Analysis	Price Status	Cost Source	Resource Utilization	Minority Goals	Subcontract Status	Vendor Status
-----------------	--------------	-------------	----------------------	----------------	--------------------	---------------

9.2.1.1 MARKUP ANALYSIS

On this tab, you can compare your profit to your costs for labor, subcontract and other cost groupings. By seeing the ratios of your markup compared to your different cost categories, you can gauge if you have the right balance of costs in your estimate.

Markup Analysis (based on Bid quantities)		
Markup as % of	All Costs (Target Price - Target Profit)	11.11
Markup as % of	All Labor Costs	79.42
Markup as % of	All Direct Labor Costs	94.07
Markup as % of	All Indirect Labor Costs	510.05

For example, if your markup is more than 100% of your Labor cost, it may indicate that you don’t have enough labor cost in your estimate to cover the work, which could indicate labor cost overruns during execution that would eat into your profit margin.

9.2.1.2 COST SOURCE

The Cost Source tab shows the breakdown of Detail, Plug and Quote cost sources, as well as the amounts and percentages of each that are attributable to Direct and Indirect cost. Your Plug cost source should be the lowest percentage.

Markup Analysis	Price Status	Cost Source	Resource Utilization	Minority Goals	Subcontract Status	Vendor Status
-----------------	--------------	-------------	----------------------	----------------	--------------------	---------------

Cost Source Analysis (based on Bid quantities)

	Detail		Plug *		Quote		Total	
	Amount	%	Amount	%	Amount	%	Amount	%
Direct Cost	\$5,156,491.67	97.95	\$64,600.00	1.23	\$43,200.00	0.82	\$5,264,291.67	100.00
Indirect Cost	\$638,694.52	98.62	\$5,338.76	0.82	\$3,570.19	0.55	\$647,603.46	100.00
Total	\$5,795,186.19	98.03	\$69,938.76	1.18	\$46,770.19	0.79	\$5,911,895.14	100.00

* Includes values entered as flat amounts (not percentages) on dependent cost items.

9.2.1.3 RESOURCE UTILIZATION

The Resource Utilization tab shows a breakdown of the man-hours and equipment hours utilized on the job, based on take-off quantities.

Markup Analysis	Price Status	Cost Source	Resource Utilization
-----------------	--------------	-------------	----------------------

Resource Utilization Analysis (based on T/O quantities)

Total Manhours	26,838.86
Total Equipment Hours	15,961.51
Total Shift Hours	5,508.23
Total Days *	682.70
Total Schedule Days	168.00

* shift hours divided by (hours per shift times shift per day)

9.2.1.4 SUBCONTRACT STATUS

The Subcontract Status tab displays a breakdown of subcontractor amounts, costs, and percentages for quoted cost items. This is a good place to review how much of your estimate is subcontracted.

9.2.1.5 VENDOR STATUS

The Vendor Status tab displays a breakdown of vendor information, including amounts and percentages of the Target Price represented by vendors. This is a good place to review how much of

your estimate costs come from vendor quotes.

Markup Analysis	Price Status	Cost Source	Resource Utilization	Minority Goals	Subcontract Status	Vendor Status	
Vendor Analysis (based on Bid quantities)							
Number of Vendors	2						
Total Vendor Amount	\$1,442,571.90						
% of Target Price	21.96						
Company Name	Contact	Phone	Amount	Currency	Percent	Street Address	
Example Vendor 4 DBE	Slim, Lester	111-122-1321	\$271,471.20	U.S. Dollar	4.13	400 Fourth Street	
Example Vendor 1	Roberts, Pat	111-123-2134	\$1,171,100.70	U.S. Dollar	17.83	100 Tenth Street	

9.3 SPREAD TARGET PRICE OVER PAY ITEMS

In the Cost Breakdown Structure you generated your direct and indirect costs, and in the Price Breakdown Structure you added profit to come up with a Target Price for the bid, but you still haven't decided how to spread the Target Price over your pay items.

In Lesson 4 you created pay items for the project in the Pay Item & Proposal Register. You can now go back to the Pay Item & Proposal Register to distribute your Target Price over those pay items.

9.3.1 CURRENT PRICE VS. TARGET PRICE

In InEight Estimate, Current Price means the total price that is currently assigned on your pay items. Open the Pay Item & Proposal Register to see what the Current Price is for your pay items (Price > Pay Item & Proposal).

At this point there is no pricing on your pay items, so your Current Price is \$0.00. This is because you have not yet spread your Target Price (the total of your cost and profit) over your pay items.

Description	Pay Quantity	Forecast (T/O) Quantity	Unit of Meas...	Unit Price (cu...	Total Price (current)
+ Mobilization	1.00	1.00	Each	\$0.00	\$0.00
+ Clearing and Grubbing	10.00	15.00	Acre	\$0.00	\$0.00
+ Excavation	50,000.00	40,000.00	CY	\$0.00	\$0.00
+ 10 " PVC Pipe	1,000.00	1,000.00	LF	\$0.00	\$0.00

9.3.2 PROPOSAL RECAP

On the Pay Item & Proposal Register, there is a Proposal Recap table where you can compare your Current Price to your Target Price to see if there is any variance.

Proposal Recap - Training Job					
	Current	Target	Forecast	Variance	
Price:	\$6,455,450.00	\$6,506,904.35	\$6,462,850.00	\$51,454.35	ADD
Profit:	\$599,221.88	\$650,676.22	\$655,858.61	\$5,182.39	CUT
Margin%:	9.28	10.00	10.15	\$10,653.01	CUT

Ideally, you want to add pricing to your pay items until your Current Price equals your Target Price, so that your Variance equals zero. That way you know you are covering all your costs and getting the profit you want.

Notice the Variance column will indicate if you need to ADD or CUT pricing on your pay items to hit your Target Price.

9.3.3 SPREAD THE TARGET PRICE

For lump sum contracts, spreading the Target Price may be as simple as spreading it to a single pay item that represents the entire project. However, most jobs will have at least a few pay items defined by the owner, and Unit Price contracts will have many pay items.

There are two main ways to distribute pricing onto your pay items:

1. Define pay item prices manually, by entering a unit or total price, or a margin percentage.
2. Use InEight Estimate's AutoPrice feature to distribute pricing automatically.

9.3.4 DEFINE PRICING FOR PAY ITEMS MANUALLY

First, you will walk through the process of defining pricing manually. This method requires filling in each item's price based solely on your own judgment.

STEP BY STEP – DEFINE PRICING MANUALLY

1. From the Estimate landing page, select the **Price** tab.
2. Select **Pay Item & Proposal** from the Pay Items section.
3. Select a **Pay Item** row.
4. In either the Unit Price (current), Total Price (current), or % Margin field of a pay item, type a **numeric value**.

For this example, we'll do the following:

- Mobilization pay item – change Total Price (current) to \$20,000.
- Clearing & Grubbing pay item – change % Margin to 5%.

Position Code	Pay Item Number	Description	Pay Quantity	Forecast (T/O) Quantity	Unit of Measure	Unit Price (current)	Total Price (current)	% Margin
1	200	SITework & ROADWAY					\$51,369.60	
+ 1.1	641 0100	Mobilization	1.00	1.00	LS	\$20,000.00	\$20,000.00	-34.67
+ 1.2	201 0102	Clearing & Grubbing	10.00	15.00	Acre	\$3,136.96	\$31,369.60	5.00

9.3.5 USE AUTOPRICE TO BALANCE AND HIT THE TARGET TOTAL

Perhaps you want to get a head start and have InEight Estimate spread your Target Price proportionately over your pay items for you. This can be done using the InEight Estimate AutoPrice feature.

TIP

Once distributed, you will still have the ability to adjust your pricing on pay items manually as needed.

Look at how you can use the AutoPrice feature.

STEP BY STEP – USE AUTOPRICE TO BALANCE AND HIT THE TARGET TOTAL

1. Open the your job in Estimate.
2. From the Estimate landing page, select the **Price** tab.
3. Click on **Pay Item & Proposal** to open the Pay Item & Proposal Register.

- On the Pay Item & Proposal Register menu, choose **Actions > Balanced Bid > Hit Target Total**.
- Review the Proposal Recap and see that the Variance is now \$0.00. Now that the job is balanced, you can see that the Current Price and the Target Price are the same, indicating that the costs and profit are spread proportionately over your pay items.

9.3.6 USE AUTOPRICE TO UNBALANCE AND HIT THE TARGET TOTAL

The Autoprice to Unbalance feature in InEight Estimate can automatically distribute profit to account for your over- and underrun items.













InEight Estimate will take profit from your underrun and put it on your overrun by using the Actions > Unbalanced > Hit Target Total feature. The purpose is to maximize your profit by spreading it strategically between these items.

STEP BY STEP – UNBALANCE HIT TARGET TOTAL

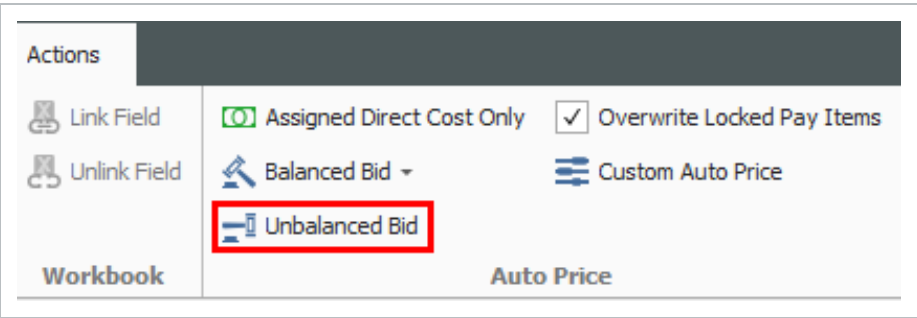
- You may encounter overrun and/or underrun items in the Pay Item & Proposal Register of your job.

Description	Pay Quantity	Forecast (T/O) Quantity	Unit of Meas...	Curre...
Excavation	10.00	15.00	Cubic Yard	U.S. Dollar
Clearing & Grubbing	50,000.00	40,000.00	Acre	U.S. Dollar

- If you do, highlight the row for each item to view it's current balanced item recap.

Item Recap - 2000 Clearing & Grubbing				Item Recap - 3000 Excavation			
	Balanced Unit	Current Unit			Balanced Unit	Current Unit	
 Price:	\$4,985.70	\$4,994.91		 Price:	\$2.86	\$2.86	
 Profit:	\$515.91	\$525.12		 Profit:	\$0.29	\$0.29	
Total Cost:	\$4,469.79	\$4,469.79		Total Cost:	\$2.57	\$2.57	
 Business Overhead:	\$245.35			 Business Overhead:	\$0.15		
 Job Overhead:	\$1,681.60			 Job Overhead:	\$0.91		
 Unassigned Direct Cost:	\$0.00			 Unassigned Direct Cost:	\$0.00		
 Assigned Direct Cost:	\$2,542.84			 Assigned Direct Cost:	\$1.52		

3. On the Pay Item & Proposal Register menu, choose **Actions > Unbalanced Bid**.



- You will see the changes reflected and how the profit was spread to your overrun and underrun items

Unit Price (current)	Total Price (current)	% Margin
\$3,000.00	\$150,000,000.00	-9.26
\$4,871.84	\$48,718.40	97.68
\$91,100.00	\$91,100.00	10.05

- In the example shown, highlighting each item will show that all your overhead and profit from Excavation was put onto Clearing & Grubbing.

Item Recap - 2000 Clearing && Grubbing				Item Recap - 3000 Excavation			
		Balanced Unit	Current Unit			Balanced Unit	Current Unit
▲	Price:	\$4,985.70	\$11,706.11	▲	Price:	\$2.86	\$1.52
▲	Profit:	\$515.91	\$7,236.32	▲	Profit:	\$0.29	(\$1.05)
	Total Cost:	\$4,469.79	\$4,469.79		Total Cost:	\$2.57	\$2.57
▲	Business Overhead:	\$245.35		▲	Business Overhead:	\$0.15	
▲	Job Overhead:	\$1,681.60		▲	Job Overhead:	\$0.91	
▲	Unassigned Direct Cost:	\$0.00		▲	Unassigned Direct Cost:	\$0.00	
▲	Assigned Direct Cost:	\$2,542.84		▲	Assigned Direct Cost:	\$1.52	

9.4 SELECTIVE PAY ITEM MARKUP

Estimate has a streamlined process to estimate the cost of a project and price the work to ensure all unassigned costs and markup are included in the final price of the project. For markup to be spread to pay items, a weighted distribution method is used as determined in the Job Properties, Pricing tab. It

might be desirable for markup percentages to not be distributed, but rather directly applied to the costs assigned to any particular pay item.

This option can be set to keep markup with assigned costs for establishing a pay item price.

The screenshot shows the 'Job Properties' dialog box with the 'Pricing' tab selected. The 'Markup Options' section is highlighted with a red rectangle. It contains the following settings:

- Balanced Price Options**
 - Calculate Balanced Pay Item Prices using:
 - ☒ Cost Amount
 - ☐ Billing Amount
 - Distribute Unassigned Cost/Billing Amount by:
 - ☒ Individual Categories
 - ☐ Top level Categories
 - ☐ Total Cost/Billing amount
- Markup Options**
 - Markup Pay Item by:
 - ☒ Using Weighted Distribution
 - ☐ Keeping Markup with Assigned Costs
- Categorize Business Overhead as:**
 - ☐ Indirect Cost
 - ☒ Markup
- Calculate Proposal Recap Forecast Markup using:**
 - ☒ Unit Markup (current) x Forecast (T/O) Quantity
 - ☐ Forecast Price - Total Cost/Billing

Additionally, this option can be used to isolate the markup and apply it only to specific pay items. The following is an example of a dependent cost item being used to mark up the labor of select site work pay items by 25%.

File Setup Estimate Quote Price Execution System Actions																			
Print		New		Copy		Toggle Suspended		Link Field		Insert		<input checked="" type="checkbox"/> Assigned Cost Only		<input type="checkbox"/> Overwrite Locked Pay Items		Default Data Blocks		Bid Wizard	
Preview		Delete		Paste		<input type="checkbox"/> Lock Quantities		Unlink Field		Insert Subordinate		<input checked="" type="checkbox"/> Balanced Bid		<input type="checkbox"/> Custom Auto Price		Expand / Collapse		Compare Alternate Scenarios	
Export to Excel		Cut		Fill Down		<input checked="" type="checkbox"/> Lock Prices						Unbalanced Bid						Configure Price Categories	
Print								Workbook		Insert		Auto Price				View		Tools	
Pay Item & Proposal Register																			
Drag columns here to group																			
Pay Item Number	Lock Quantity	Lock Price	Description	Pay Quantity	Forecast (T/O) Quantity	Unit of Measure	Currency	LABOR Cost	LABOR Cost Distribution	LABOR Markup	LABOR Markup %	LABOR Price (balanced)	LABOR Price (current)	Unit Price (current)	Total Price (current)				
→ + 1	<input type="checkbox"/>	<input type="checkbox"/>	EARTHWORK AND UTILITIES	1.00	1.00	Lump Sum	U.S. Dollar	\$62,401.68	\$0.00	\$15,600.42	25.00	\$78,002.09	\$72,664.97	\$170,700.00	\$170,700.00				
+ 2	<input type="checkbox"/>	<input type="checkbox"/>	AC PAVING	1.00	1.00	Lump Sum	U.S. Dollar	\$29,711.17	\$0.00	\$7,427.79	25.00	\$37,138.96	\$34,430.26	\$97,253.00	\$97,253.00				
+ 3	<input type="checkbox"/>	<input type="checkbox"/>	PAVEMENT MARKINGS	1.00	1.00	Lump Sum	U.S. Dollar	\$14,545.57	\$0.00	\$3,636.39	25.00	\$18,181.96	\$16,940.94	\$44,200.00	\$44,200.00				
+ 4	<input type="checkbox"/>	<input type="checkbox"/>	SITE CONCRETE	1.00	1.00	Lump Sum	U.S. Dollar	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	\$216,300.00	\$216,300.00				
+ 5	<input type="checkbox"/>	<input type="checkbox"/>	FENCING	1.00	1.00	Lump Sum	U.S. Dollar	\$7,163.88	\$0.00	\$1,790.97	25.00	\$8,954.84	\$8,099.23	\$42,300.00	\$42,300.00				
+ 6	<input type="checkbox"/>	<input type="checkbox"/>	LANDSCAPING	1.00	1.00	Lump Sum	U.S. Dollar	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	\$39,900.00	\$39,900.00				
+ 7	<input type="checkbox"/>	<input type="checkbox"/>	PILES AND PIERS	1.00	1.00	Lump Sum	U.S. Dollar	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	\$1,625,000.00	\$1,625,000.00				
+ 8	<input type="checkbox"/>	<input type="checkbox"/>	CONCRETE	1.00	1.00	Lump Sum	U.S. Dollar	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	\$5,370,940.00	\$5,370,940.00				

EXERCISE 9.1 – MANUALLY PRICE PAY ITEMS

To finalize your bid proposal, you will apply final pricing (costs and profit) to your pay items either manually or using the AutoPrice tool. In this exercise, you will practice entering prices manually for your pay items. Complete the following steps, using your job.

1. Continue manually pricing items in the Pay Item & Proposal Register.
2. Type **2.75** in the Unit Price (current) column for pay item Excavation.
3. Type **2** in the % Margin field for pay item 4000 – 10" PVC Pipe.
4. Check your variance to see if you need to add or cut your current pricing to hit your Target Price.

You should end up with similar results

Pay Item Number	Row Nu...	Description	Pay Quantity	Forecast (T/O) Quantity	Unit of Meas...	Unit Price (current)	Total Price (current)	% Margin
+ 1000	1	Mobilization	1.00	1.00	Lump Sum	\$20,000.00	\$20,000.00	-40.04
+ 2000	2	Clearing & Grubbing	10.00	15.00	Acre	\$4,705.04	\$47,050.40	5.00
+ 3000	3	Excavation	50,000.00	40,000.00	CY	\$2.75	\$137,500.00	6.44
+ 4000	4	10" PVC Pipe	1,000.00	1,000.00	LF	\$22.00	\$22,000.00	1.99

Congratulations, you have completed this exercise!

9.5 BID ADJUSTMENTS

Often you will want to continue adjusting certain pay items and then rebalance to hit the target total.

9.5.1 LOCK PRICE

You can lock down a pay item price and it will not factor in future rebalancing.

STEP BY STEP – LOCK PRICE

1. Select the **Lock Price** checkbox on an item's row.

Pay Item Number	Description	Lock Price	Pay Quantity	Forecast (T/O) Quantity
+ 202 0183	Unclassified Excavation	<input type="checkbox"/>	50,000.00	50,000.00
+ 641 0100	Mobilization	<input checked="" type="checkbox"/>	1.00	1.00
+ 201 0102	Clearing & Grubbing	<input type="checkbox"/>	10.00	10.00

2. After making further adjustments in the next step by step, you will return to the Pay Item & Proposal to rebalance.
 - You can continue to adjust at previous levels aside from solely in the Pay Item & Proposal Register
 - For example, you could make a last-minute adjustment in the PBS or CBS. You can make adjustments anywhere, but for this example an adjustment will be made in the Direct Cost Add-On record at the CBS level

STEP BY STEP – MAKE LAST MINUTE BID ADJUSTMENTS

1. With your job open, select the **Estimate** tab.
2. Click on **Cost Breakdown Structure** to open the CBS.
3. Double click on the row header to open the **Direct Cost Add-On** dependent cost item record.
4. Under the Description tab on the left, click in the blank row under the **Description** column.

5. Type in a **description**.
6. Make the adjustment by typing a **numeric value** in the **Cost column** of the Materials Cost category under the Cost Breakdown section on the right.

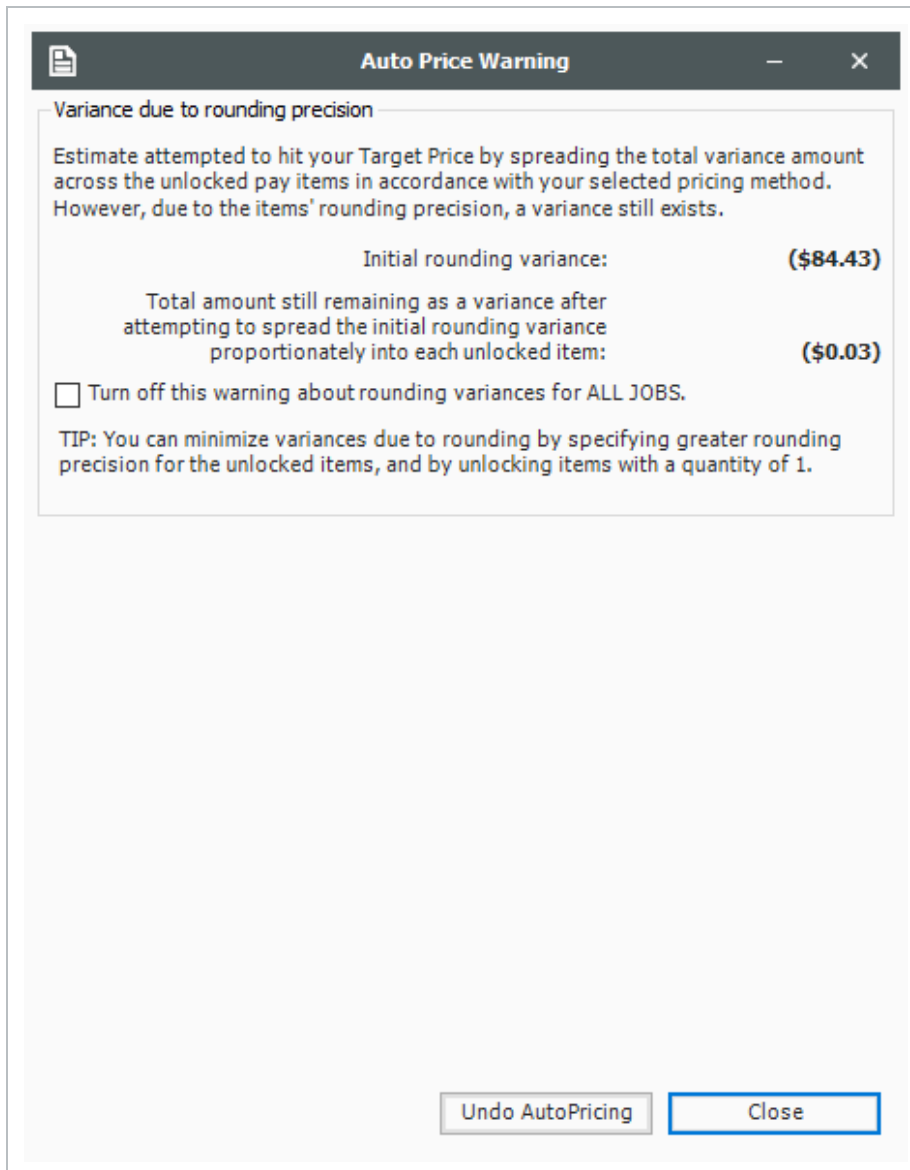
Cost Breakdown				
Cost Category	Subject Cost	Rate		Cost
▼ Total	\$130,759.83	-0.76		(\$1,000.00)
▶ Labor	\$58,969.83	0.00		\$0.00
▶ Owned Equipment	\$68,251.92	0.00		\$0.00
▶ Rented Equipment	\$0.00	0.00		\$0.00
▶ Supplies	\$0.00	0.00		\$0.00
▶ Materials	\$3,276.00	-30...		(\$1,000.00)
▶ Subcontract	\$0.00	0.00		\$0.00
▶ Fees	\$262.08	0.00		\$0.00
▶ Allowance	\$0.00	0.00		\$0.00
Custom Category1	\$0.00	0.00	→	\$0.00
Undefined	\$0.00	0.00	→	\$0.00

- To make a cut, enter a negative value, i.e. -1000

7. Press the **Tab** key, and your adjustment will be reflected on the left-hand side.

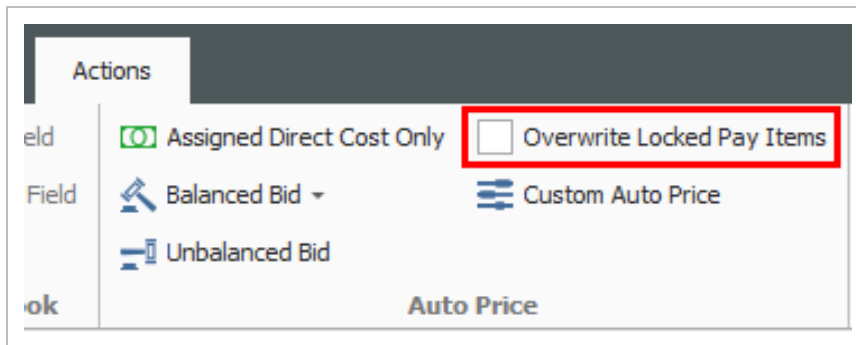
Description	Dependency	Cost Categorization	Allocation
Drag columns here to group			
Description	Curre...	Total Cost (Forecast)	Ac Co
Small Tools	U.S. Dollar	\$5,896.98	
Safety & Training	U.S. Dollar	\$2,948.49	
→ Cut	U.S. Dollar	(\$1,000.00)	

8. Finally, return to the **Pay Item & Proposal**.
9. On the **Actions** menu, select **Balanced Bid > Hit Target Total**.
10. An Auto Price Warning may display, informing you of rounding variances. After reading the details, click the **Close** button.



- Note on the proposal recap that a variance may still exist because there are a limited number of pay items to spread the rounding error over
- Note that the locked item did not adjust, but the other pay items were updated
- Note that you can overwrite locked items for spreading your price by checking the

Overwrite Locked Pay Items option on the Actions menu



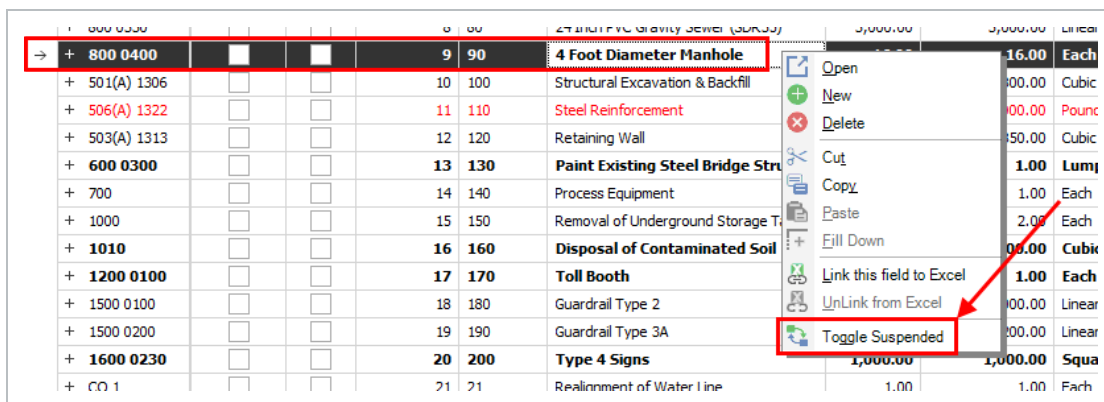
9.5.2 SUSPEND PAY ITEMS

Like suspending cost items in the CBS Register, you can suspend pay items in the Pay Item & Proposal Register. Suspending a pay item causes it to no longer contribute quantities and pricing to the estimate.

This can be helpful when considering alternate items on a bid submission. Should the client decide to not require a pay item, you can suspend it, causing the pay item and any of its assigned cost items to no longer contribute any cost or price. It will no longer show up on your bid and no longer contribute to the overall total price.

You can suspend/unsuspend pay items in one of three ways:

- Right click on the pay item and select Toggle Suspended



- Select the pay item and click Toggle Suspended under the Edit section of the Actions Tab

The screenshot shows the 'Estimate Essentials' software interface. The 'Actions' tab is selected, and the 'Toggle Suspended' button is highlighted with a red box and a red arrow. Below the toolbar, the 'Pay Item & Proposal Register' is visible, showing a 'Proposal Recap - Training Job' table with columns for Current, Target, Forecast, and Variance. The table includes rows for Price, Profit, and Margin. Below this, a list of pay items is shown, with the item '4 Foot Diameter Manhole' (Line 90) highlighted in a red box.

	Current	Target	Forecast	Variance	
Price:	\$6,455,450.00	\$6,514,915.53	\$6,462,850.00	\$59,465.53	ADD
Profit:	\$592,026.02	\$651,491.55	\$658,609.04	\$7,117.49	CUT
Margin%:	9.17	10.00	10.19	\$13,693.38	CUT

Pay Item Number	Lock Quantity	Line Number	Description	Pay Quantity	Forecast (T/O) Quantity	Unit of Measure
+ 641 0100	<input type="checkbox"/>	1 10	Mobilization	1.00	1.00	Lump Sum
+ 201 0102	<input type="checkbox"/>	2 20	Clearing & Grubbing	10.00	10.00	Acre
+ 202 0183	<input type="checkbox"/>	3 30	Unclassified Excavation	50,000.00	50,000.00	Ton
+ 303 5912	<input type="checkbox"/>	4 40	Aggregate Base	40,000.00	45,000.00	Ton
+ 303 4263	<input type="checkbox"/>	5 50	Asphalt Concrete Hot Mix Type A	38,000.00	35,000.00	Ton
+ 413(B) 0464	<input type="checkbox"/>	6 60	36 Inch RCP Culvert Class III	1,000.00	1,024.00	Linear Feet
+ 800 0220	<input type="checkbox"/>	7 70	10 Inch PVC Force Main (SDR21)	12,000.00	12,000.00	Linear Feet
+ 800 0330	<input type="checkbox"/>	8 80	24 Inch PVC Gravity Sewer (SDR35)	3,000.00	3,000.00	Linear Feet
+ 800 0400	<input type="checkbox"/>	9 90	4 Foot Diameter Manhole	16.00	16.00	Each

- Open the pay item record and checking/unchecking the Suspend box

The screenshot shows the 'Pay Item Record' form. The 'Pay Item Number' is 800 0400, and the 'Description' is '4 Foot Diameter Manhole'. The 'Line Number' is 90, and the 'Alternate' is BASE. The 'Suspend' checkbox is highlighted with a red box and a red arrow. The form also includes fields for 'Quantity', 'Lock Quantity', 'Pay Quantity', 'Forecast (T/O) Qty', 'Unit of Measure', 'Qty Variance', 'Qty Variance %', 'Qty Variance Group', 'Price', 'Unit Price Precision', 'Unit Price', 'Total Price', 'Currency', 'Payment Method', and '% Margin'.

LESSON 9 REVIEW

1. Markup is a function of cost, while margin is a function of _____.
 - a. billing
 - b. price
 - c. job overhead
 - d. indirect costs

2. When adding profit, it must be the same amount for direct and indirect costs.
 - a. True
 - b. False

3. What options do you have to enter profit on the PBS?
 - a. % Mark-Up, % Margin, and Fixed Dollar Amount
 - b. % Mark-Up or % Margin
 - c. Fixed Dollar Amount Only

4. Once distributed, you still can adjust your pricing on pay items manually as needed.
 - a. True
 - b. False

LESSON 9 SUMMARY

As a result of this lesson, you can:

- Add job markup (profit)
- Use tools on the PBS form to review your estimate
- Spread Target Price over pay items
- Make bid adjustments