



**ESTIMATE
INTERMEDIATE USER
GUIDE**

PROJECT COST MANAGEMENT

INEIGHT 

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INTERMEDIATE 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:

- Review and report on project information
- Integrate with MS Excel and scheduling software (MS Project or Oracle Primavera)
- Manage quotes and use additional time-saving tools

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 8	Quote Management
Lesson 9	Reporting
Lesson 10	Data Reproduction
Lesson 11	Excel Integration
Lesson 12	Schedule Integration
Lesson 13	Cash Flow
Lesson 14	InEight Estimate Calculators
Lesson 15	Cost Item Assemblies

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 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.

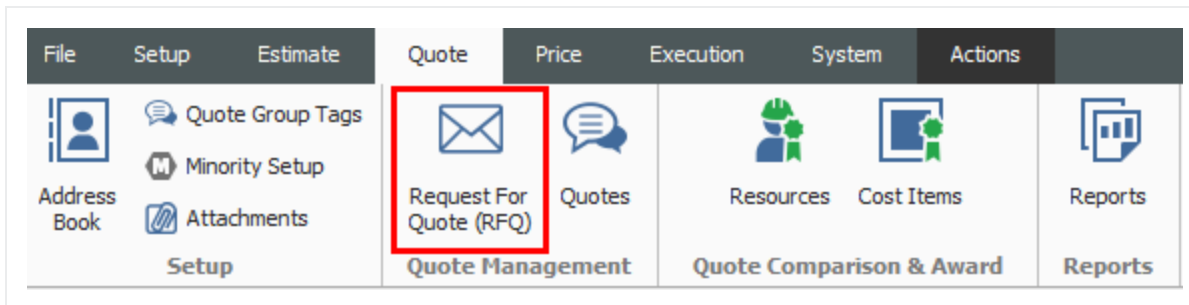
CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Quote Group
13	Paint Existing Steel Bridge Structure	1.00	Lump Sum	Structural Painting
14	Process Equipment	1.00	Each	Process Equipment Install
17	Toll Booth	1.00	Each	Commercial Work
18	Guardrail Type 2	1,000.00	Linear Feet	Guardrail 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).

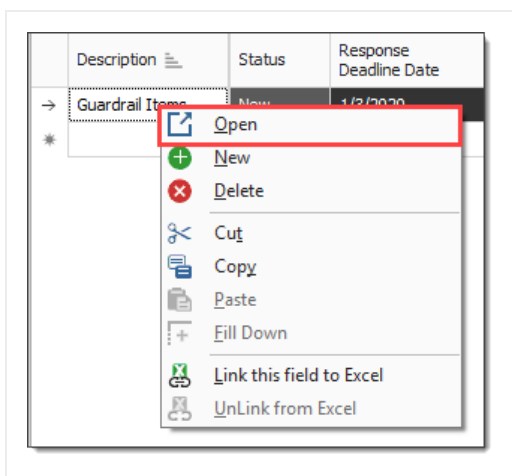


- The RFQ register lists all of the RFQs you’ve created, with a Description, a Status, and a Response Deadline Date

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

Status: New

Published Date:

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 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: Response Deadline Time:

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: Response Deadline Time:

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: Response Deadline Time:

Line Items | Terms & Conditions | Vendor Companies | **Attachments** | Setup

Drag columns here to group Saved views:

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: Response Deadline Time:

Line Items | Terms & Conditions | Vendor Companies | Attachments | **Setup**

Tag 1: Notes

Tag 2:

Tag 3:

RFQ Publication Settings

Cost Item Identifier:

- Include RFQ Instructions
- Include Buyer's Special Terms & Conditions
- Include Notes
- Include Attachments
- Publish Item Quantities
- Publish To File
- Publish By Email

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

1. Open your job.
2. From the InEight Estimate landing page, select the **Quote** tab.
3. Select **Request for Quote (RFQ)**.
4. From the Actions tab, click on the **New** icon to create a new RFQ.
5. Select **Create RFQ from Quote Group Tag(s)**, leaving the checkboxes checked to only show quote groups and resources that are being used.
6. Select a **description** from the panel.

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

Description

- [Uncheck All]
- [Blanks]
- Asphalt Materials
- Commercial Work
- Concrete Materials
- Guardrail Work
- Landscaping Work
- Manhole Materials
- None
- Painting Materials
- Pipe Materials
- Process Equipment Install
- Process Materials
- Sign Work
- Structural Painting
- Aggregates

7. Click **OK**.

- The Request for Quote (RFQ) Record is created with two aggregate line items
- The Description field is automatically filled with the name of the quote group

Description

Aggregates

Response Deadline Date: 12/27/2018

Line Items | Terms & Conditions | Seller Companies | Attachments

Resources | Cost Items

Drag columns here to group

	Code	Quote Group Tag	Description
→	MBR	Aggregates	Aggregate B...
	MDIRTB	Aggregates	Dirt Class B

- 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. 2:00 pm).

Response Deadline Date: 7/29/2009

Response Deadline Time: 11:00 AM

Line Items | Terms & Conditions | Vendor Companies | Attachments | Setup

- Select the **Terms & Conditions** tab.
- Create and type in any **special conditions** in the Buyer’s Special Terms & Conditions field.
- Type in **instructions** in the RFQ Instructions field.

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.

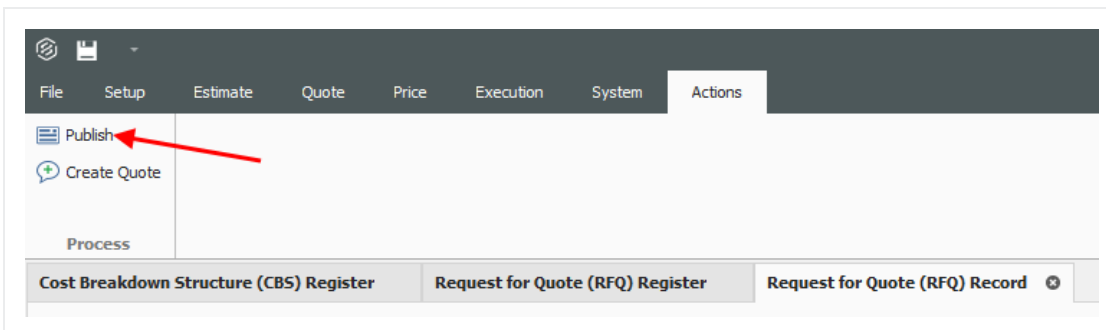
- Select the **Seller Companies** tab and click in the first blank row in the **Company Name** column.

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
			<input type="checkbox"/>	

13. Click on the **Address book**  icon, and then select vendors.
14. Click **OK**.
15. Make sure **Publish to File** is checked for all vendors.
16. Select the sellers to whom you want to send the RFQ.

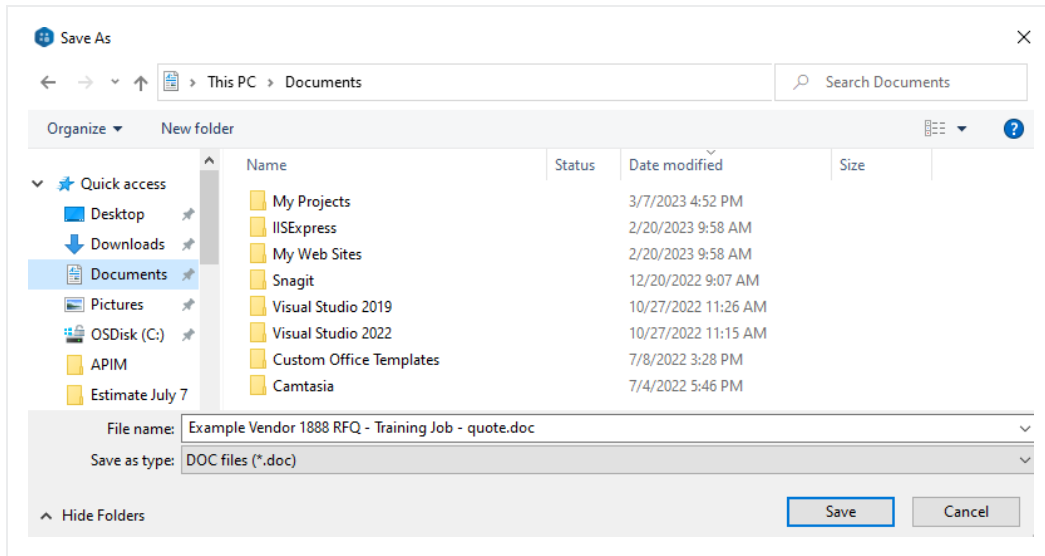
Company Name	First Name	Last Name
Example Vendor 1 -- Pat Roberts	Pat	Roberts
Example Vendor 2 -- Stan Mark	Stan	Mark
Example Vendor 4 DBE -- Lester Slim	Lester	Slim

17. Under the Actions tab of the record, select **Publish** to create your RFQ document.



The screenshot shows a software interface with a top navigation bar containing icons and tabs: File, Setup, Estimate, Quote, Price, Execution, System, and Actions. The 'Actions' tab is active. Below the navigation bar, there are two main buttons: 'Publish' (with a document icon) and 'Create Quote' (with a plus icon). A red arrow points to the 'Publish' button. Below these buttons is a 'Process' section with three buttons: 'Cost Breakdown Structure (CBS) Register', 'Request for Quote (RFQ) Register', and 'Request for Quote (RFQ) Record' (with a refresh icon).

- Select a location to save the RFQ.



- MS 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:**

<p>Name: Pat Roberts Company: Example Vendor 1 100 Tenth Street Hometown, AZ 889060</p> <p>Phone: 111-123-2134 Mobile Phone: Fax: 222-123-1234 Email:</p>	<p>Name: Tom Cross Company: Example Prime Contractor 1 400 First Street Suite 4000 Hometown, AZ 889004</p> <p>Phone: 111-122-1111 Mobile Phone: Fax: 222-112-2211 Email:</p>
---	--

Job Information: Training Job
 Training Job - Maricopa County No. TM2924

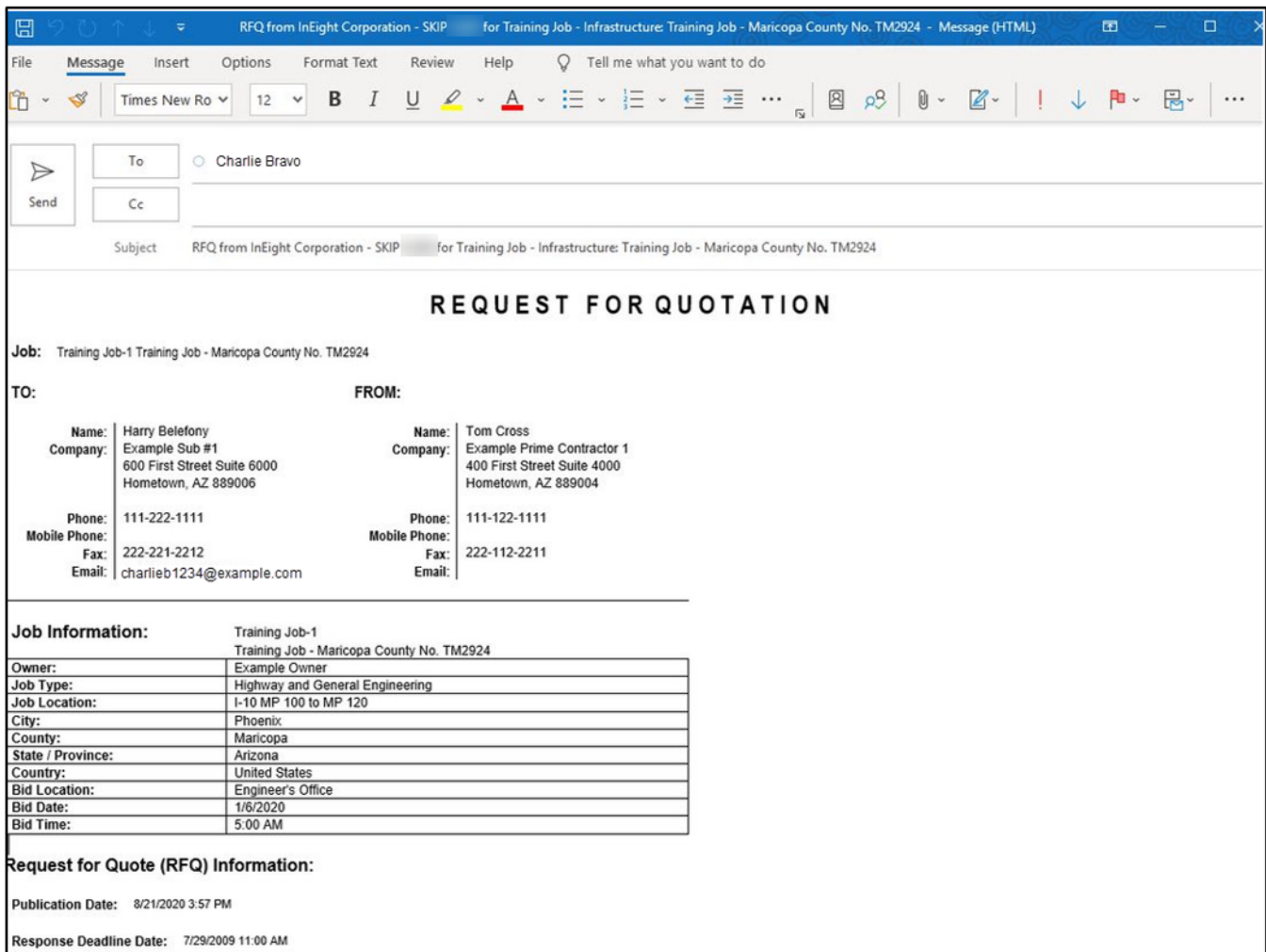
Owner:	Example Owner
Job Type:	Highway and General Engineering
Job Location:	I-10 MP 100 to MP 120
City:	Phoenix
County:	Maricopa
State / Province:	Arizona
Country:	United States
Bid Location:	Engineer's Office
Bid Date:	1/6/2020
Bid Time:	10:00 PM
Measurement System:	English

Request for Quote (RFQ) Information:

18. 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.



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** **ONISITE 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** **OFFSITE 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 data 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.

The screenshot displays the 'Quote Record' interface. The 'Header' section (1) includes fields for Description (Pipe Materials), Vendor (1128354 Alberta Ltd), Vendor Name, Vendor Phone, Contact, First Name, Last Name, Contact Office, Contact Mobile, External Ref., Optional Code, Date (7/20/2023), Source, Currency (U.S. Dollar), Status (Incomplete), and Ignore/Reason. The 'Resources' section (3) is a table with columns: Code, RFQ ID, Quote Group, Optional Code, Description, No Split, Free, Awarded, and Duration. The 'Special Terms & Conditions' section (4) includes fields for Buyer's Special Terms & Conditions, Vendor's Special Terms & Conditions, Special Conditions Adjustments (\$0.00), Distribute Special Conditions (Evenly/Using Weighted Average), and Include Special Conditions costs for unawarded quotes. A summary table (2) shows Total Extended Price (\$0.00), Item Taxes (\$0.00), Quote Tax, Bond, Item Conditions (\$0.00), and Special Conditions.

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"/>	

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 a 'Quote Record' form with the following fields:

- Description: Asphalt Materials
- Vendor: 1128354 Alberta Lt... (highlighted with a red box)
- Vendor Name: 1128354 Alberta Ltd
- Vendor Phone: 780-920-3163
- Contact: Alberta -- Frank Ma... (highlighted with a red box)
- First Name: Frank
- Contact Office:
- Primary Email: Frankmatty@gmail.com
- Last Name: Matty
- Contact Mobile:
- External Ref.:

Below the form is an 'Address Book Register - Library' window with 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

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

Package	Code	RFQ ID	Quote Group	Optional Code	Description	No Split	Free	Awarded	Du...	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
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.

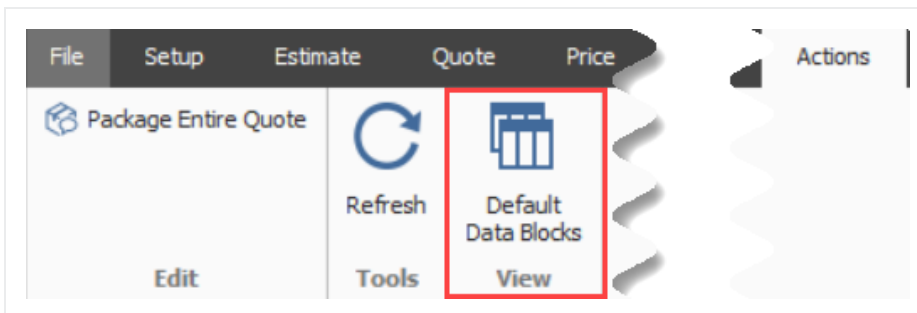
Code	RFQ ID	Tag 11	Tag 12	Tag 13	Tag 14	Tag 15	Tag 16	Tag 17	Tag 18	Tag 19	Tag 20	Tag 21	Tag 22	Tag 23	Tag 24	User Defined 1	User Defined 2	User Defined 3	User Defined 4	User Defined 5
6.1				Pipe	Concrete											11 inch coop	plastic casing			
6.2																				

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 [X]

Buyer's Special Terms & Conditions

Vendor's Special Terms & Conditions

Special Conditions Adjustments:

Distribute Special Conditions: Evenly Using Weighted Average

Include Special Conditions costs for unawarded quotes in Comparable Totals

Drag columns here to group Saved views: 🔍

Row Number	Scope Item	Quote Group	Included	Amount	% of Total	Notes
					\$0.00	

Special Terms & Conditions | Qualifications | Packages | Taxes | Vendor's Profile | Setup | Minority

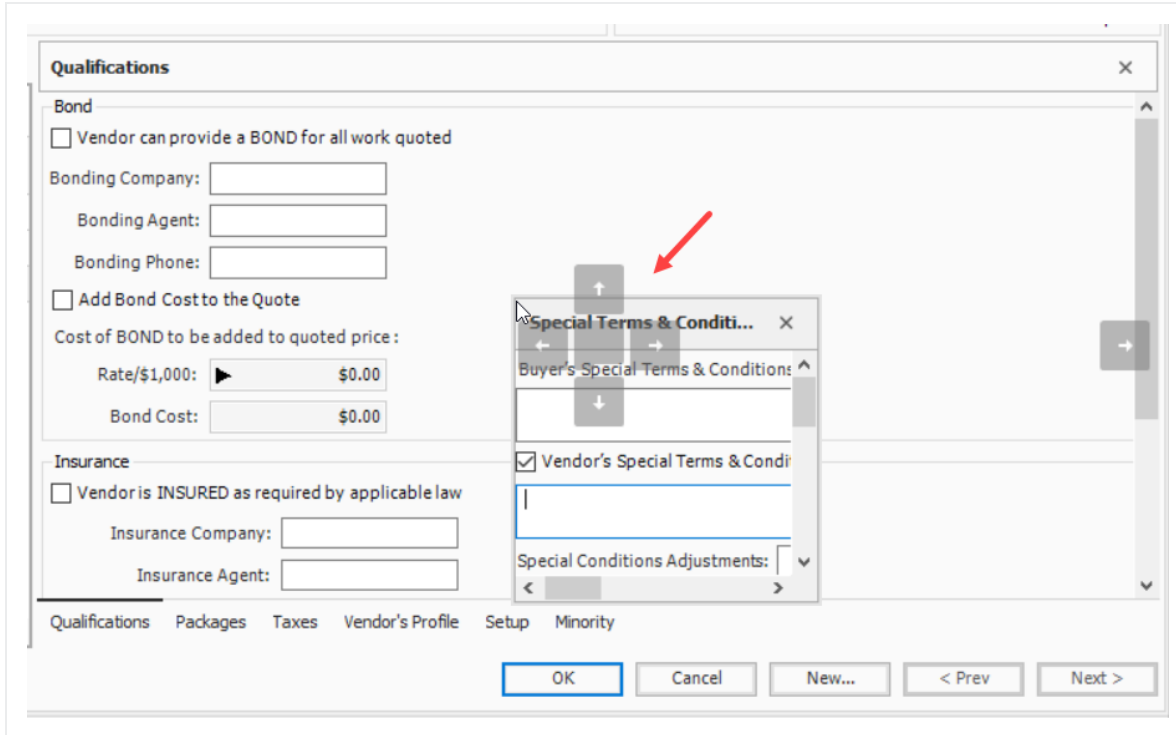
It's possible to move the entire data block, or individual data blocks to other parts of the screen. For example, select the Special Terms & Conditions header row, and drag to the desired part of the screen.

Special Terms & Conditions drag and move

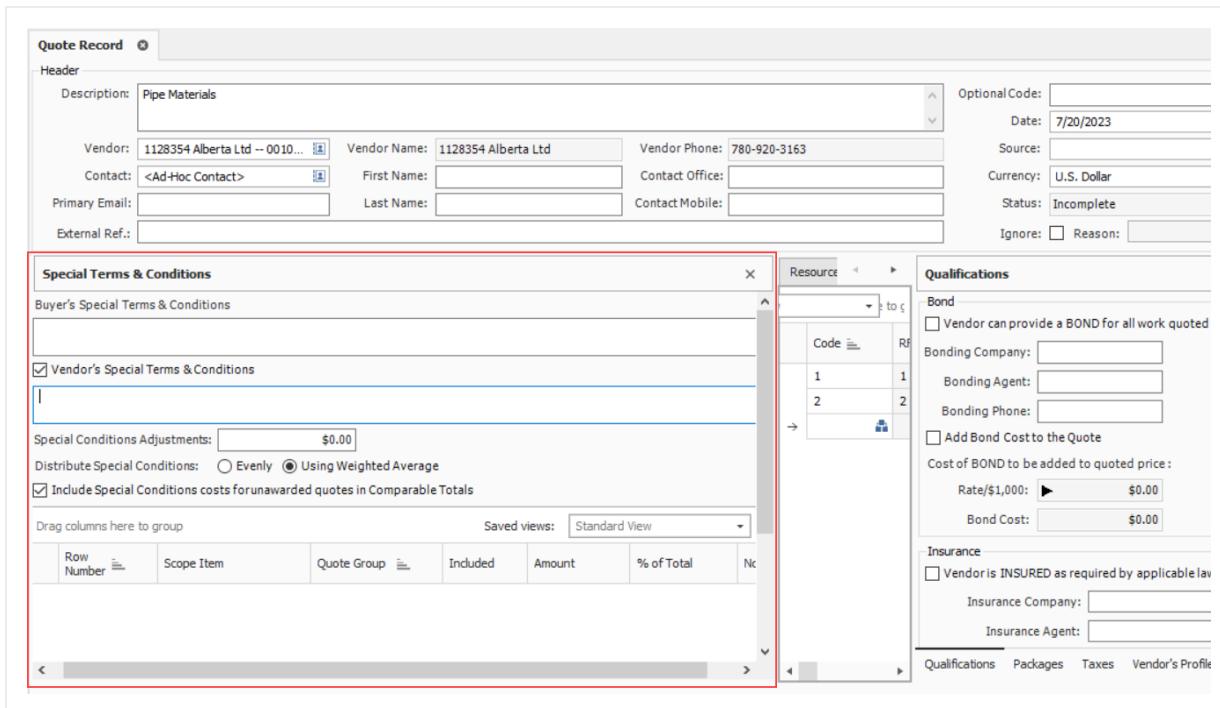
Buyer's Special Terms & Conditions

Seller's Special Terms & Conditions

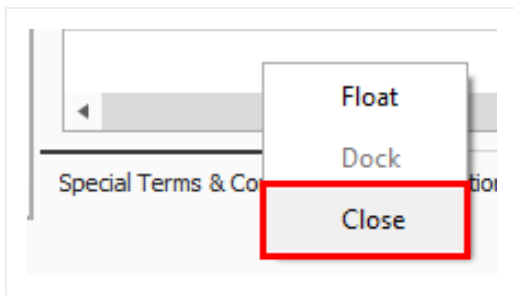
Drop the data block on top of an arrow where you wish to land the data block.



The data block will now reside on the left side of the screen.



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:

Distribute Special Conditions: Evenly Using Weighted Average

Include Special Conditions costs for unawarded quotes in Comparable Totals

Drag columns here to group Saved views: 🔍

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 vice 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

Licensors:

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	
		<h2>Civic Center Parking Structure</h2>	
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	
	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	
	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:		
	1. Any permits, fees, inspections, plans, bond premiums, soil testing, etc.		
	2. Any hard rock excavation. (Hard rock is defined as unable to be removed by CAT D6 or CAT 325 Excavator)		
	3. Any trenching for footings of building or masonry structures.		
	4. Any temporary fencing or trench plating.		
	5. Any export of materials other than specifically included offhauls.		
6. Spoils over 12" in diameter will be offhauled at an additional agreed to cost.			
7. Any structure demolition or removal. (Concrete, asphalt, fencing, trees, buildings, signs, masonry)			
8. Any and all landscape repair, installation, or removal			
9. Any storm water pollution prevention or erosion control unless specifically mentioned.			
10. 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 shows the 'Quote Register' software interface. At the top, there are tabs for 'Quote Register' and 'Quote Record'. Below this is a 'Header' section with various input fields for 'Description', 'Vendor', 'Contact', 'Primary Email', 'External Ref.', 'Optional Code', 'Date', 'Source', 'Currency', 'Status', 'Ignore', and 'Reason'. To the right, there is a 'Total' section with fields for 'Extended Price', 'Item Taxes', 'Quote Tax', 'Bond', 'Item Conditions', and 'Special Conditions'. Below the header, there are tabs for 'Resources' and 'Cost Items'. The 'Cost Items' tab is active, showing a table of items grouped into packages. The table has columns for Package, Code, Quote Group, Optional Code, Description, No Split, Duration, Quantity, Unit of Measure, Unit Price, and Extended Price. The items are grouped into three packages: P1 (Demo, Exav, Grading), P2 (Assisted Parking Lot), and P3 (Paving). To the right of the main table, there is a 'Packages' section with a table showing Code, Description, and Amount for each package. The 'Packages' table has three rows: P1 (Demo, Exav, Grading) with an amount of \$150,780.00, P2 (Assisted Parking Lot) with an amount of \$43,535.00, and P3 (Paving) with an amount of \$139,000.00. At the bottom of the interface, there are buttons for 'OK', 'Cancel', and 'New...'. The page number '3' is visible at the bottom center.

Package	Code	Quote Group	Optional Code	Description	No Split	Duration	Quantity	Unit of Measure	Unit Price	Extended Price	Curr	
P1 (Demo, Exav, Grading)												
P1	1.3.1		1.3.1	Excavation	<input checked="" type="checkbox"/>	1	50,000.00	Cubic Yard	P1	P1	\$150,780.00	U.S.
P1	1.4.2		1.4.2	Finegrade Subgrade	<input checked="" type="checkbox"/>	1	400,000.00	Square Yard	P1	P1		U.S.
P1	1.5		303 4263	Asphalt Concrete Hot...	<input checked="" type="checkbox"/>	1	35,000.00	Ton	P1	P1		U.S.
P1	1.6		1.3.1	Grading	<input checked="" type="checkbox"/>	1	1.00	Cubic Yard	P1	P1		U.S.
P2 (Assisted Parking Lot)												
P2	4.1	Process Equi...	700	Process Equipment	<input checked="" type="checkbox"/>	1	1.00	Each	P2	P2	\$43,535.00	U.S.
P2	4.2.1		4.2.1	Remove & Dispose Co...	<input checked="" type="checkbox"/>	1	2.00	Each	P2	P2		U.S.
P2	5.1.1		0220	Site Preparation	<input checked="" type="checkbox"/>	1	1.00	Lump Sum	P2	P2		U.S.
P3 (Paving)												
P3	1.7		1.3.1	Paving	<input checked="" type="checkbox"/>	1	1.00	Cubic Yard	P3	P3	\$139,000.00	U.S.

Code	Description	Amount
P1	Demo, Exav, Grading	\$150,780.00
P2	Assisted Parking Lot	\$43,535.00
P3	Paving	\$139,000.00

Step by Step — Create a packaged quote

You have received a quote from a vendor for a project and need to enter the quote into the Quote register as a Quote record.

<i>Description of Work</i>	<i>Price</i>
<p>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</p>	\$150,780.00
<p>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></p>	\$43,535.00
<p>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></p>	\$139,900.00

1. From the InEight Estimate landing page, select the **Quote** tab.
2. Click the **Quotes** icon under Quote Management.
3. Double click on an item (for example, **Site Work**).

Cost Breakdown Structure (CBS) Register		Quote Register	Quote Record			
Drag columns here to group						
Description	Quote Status	Vendor	Vendor Name	Contact	Quote Total	
Site work	Received	Lewis Concrete -- V187	Lewis Concrete	Lewis Concrete -- Robert Cantor	\$343,731.63	
Pipe Materials	Received	Example Vendor 4 DBE -- Example Vendor 4 ...	Example Vendor...	Example Vendor 4 DBE -- Leste...	\$263,281.20	
Pipe Materials	Received	Ven10	Ven10	Ven10 -- Tony LN	\$259,056.00	
Asphalt Materials	Received	Lewis Concrete -- AA1	Lewis Concrete	<Ad-Hoc Contact>	\$1,115,975...	

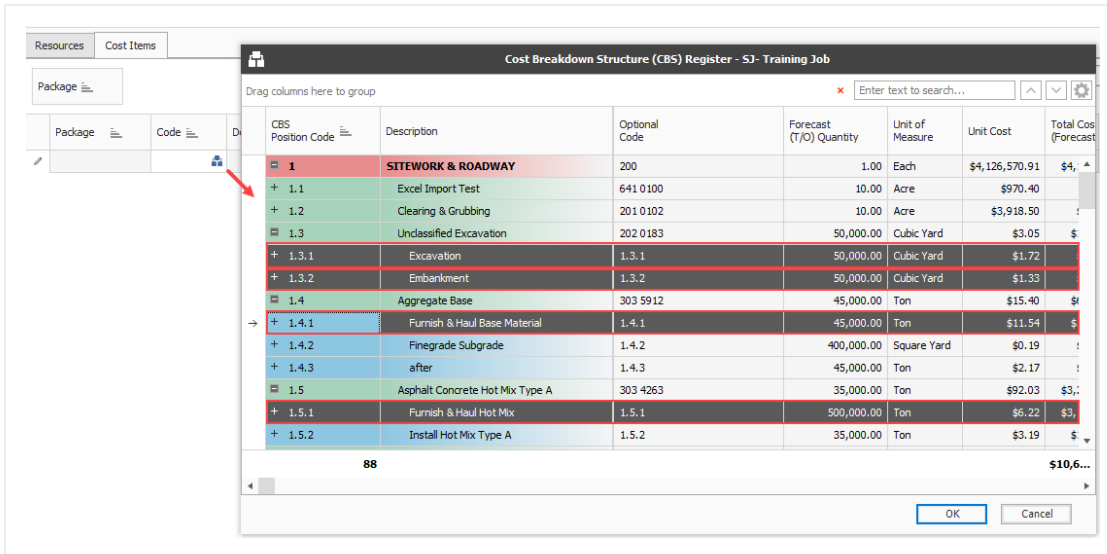
4. In the Description field, enter or replace the **description**.
5. In the Vendor field, select the **Vendor Quick Add** button to add a vendor on the fly, or select the **Library Address Book** to select and existing vendor.

6. Click **OK**
7. In the Contact field, select the **Contact Quick Add** button to add a vendor on the fly, or select the **Library Address Book** to select an existing contact.

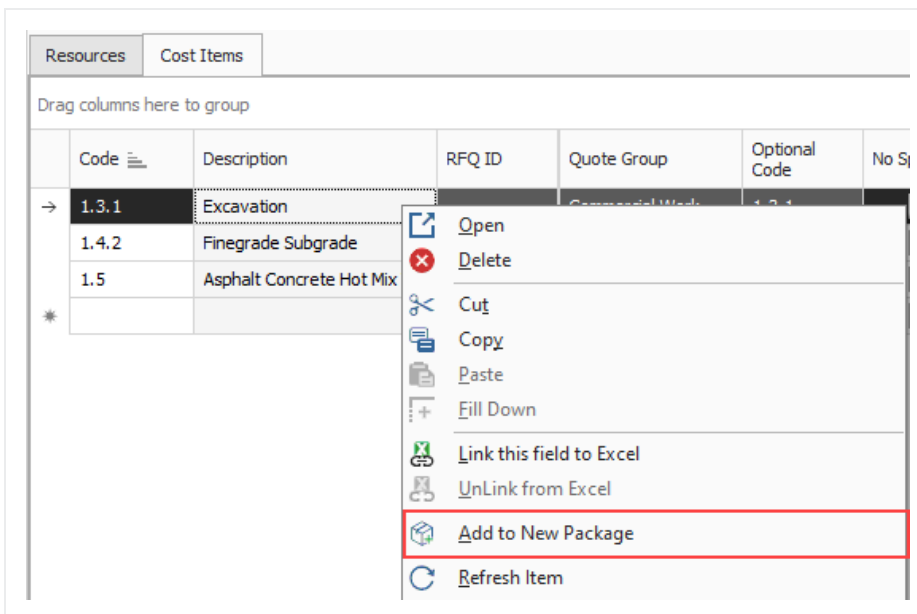
8. Click **OK**
9. Select the **Cost Items** tab on the left side of the screen.

Resources		Cost Items			
Drag columns here to group					
	Code	Optional Code	Description	Quantity	Quote Group
*					

10. Click on the **Code** field to show the CBS selection window. Multi-select the cost items that you want to bring into the quote record, and then select **OK**.



11. Right-click and then select **Add a New Package** to create the package on the fly.



12. Create three Packages as follows:

Package Record - SJ- Training Job

Code: * P1

Description: Demo,Exav,Grading

Amount: \$150,780.00

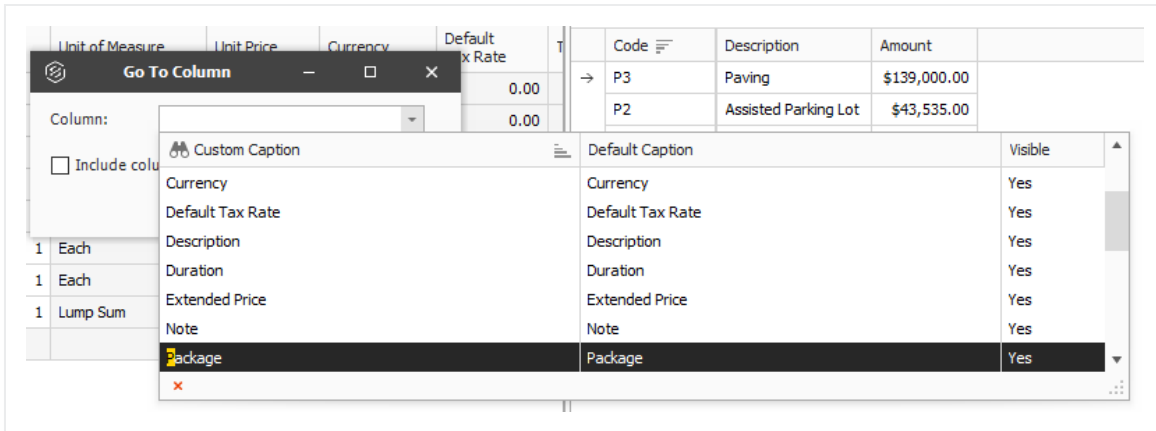
OK Cancel

- Code: **P1**
- Description: **Demo,Exav,Grading**
- Amount: **\$150,780.00**
- Code: **P2**
- Description: **Assisted Parking Lot**
- Amount: **\$43,535.00**
- Code: **P3**
- Description: **Paving**
- Amount: **\$139,000.00**

The Packages tab will look like this:

Packages			
Drag columns here to group			
	Code	Description	Amount
	P1	Demo,Exav,Grading	\$150,780.00
	P2	Assisted Parking Lot	\$43,535.00
→	P3	Paving	\$139,000.00
*			

13. **Right-click** a column header, select **Go To Column**, and then select the **Package** column.



- select **P1**, **P2**, or **P3** under the Package columns for each of the cost items. The P# equals the package code that you will enter based on the type of work being performed.

Code	Description	Quantity	Quote Group	Extended Price	Package	Awarded	Duration	Unit of Measure	Unit Price	Currency	Default Tax Rate
1.3.1	Excavation	50,000.00		P1 \$150,780.00	P1	<input type="checkbox"/>	1	Cubic Yard	P1	U.S. Dollar	0.00
1.4.2	Finegrade Subgrade	400,000.00		P1	P1	<input type="checkbox"/>	1	Square Yard	P1	U.S. Dollar	0.00
1.5	Asphalt Concrete Hot Mix T...	35,000.00		P1	P1	<input type="checkbox"/>	1	Ton	P1	U.S. Dollar	0.00
1.6	Grading	1.00		P1	P1	<input type="checkbox"/>	1	Cubic Yard	P1	U.S. Dollar	0.00
1.7	Paving	1.00		P3 \$139,000.00	P3	<input type="checkbox"/>	1	Cubic Yard	P3	U.S. Dollar	0.00
4.1	Process Equipment	1.00	Process Equipment ...	P2 \$43,535.00	P2	<input type="checkbox"/>	1	Each	P2	U.S. Dollar	0.00
4.2.1	Remove & Dispose Contents	2.00		P2	P2	<input type="checkbox"/>	1	Each	P2	U.S. Dollar	0.00
5.1.1	Site Preparation	1.00		P2	P2	<input type="checkbox"/>	1	Lump Sum	P2	U.S. Dollar	0.00

Code	Description	Amount
P3	Paving	\$139,000.00
P2	Assisted Parking Lot	\$43,535.00
P1	Demo,Exav,Grading	\$150,780.00

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-segregate fill Fine grade pads Demo and remove 16th street curbs and paving Grade for new roadway Grade for exterior concrete sidewalks 2 installations	\$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 Key Exclusions: slurry seal, striping, fencing, concrete work, lighting	\$43,535.00
P3 PAVING (PARTIAL) Place aggregate base for AC Paving, curbs and walks Place 3" asphalt concrete section Key Exclusions: slurry seal, striping, fencing, concrete work	\$139,900.00

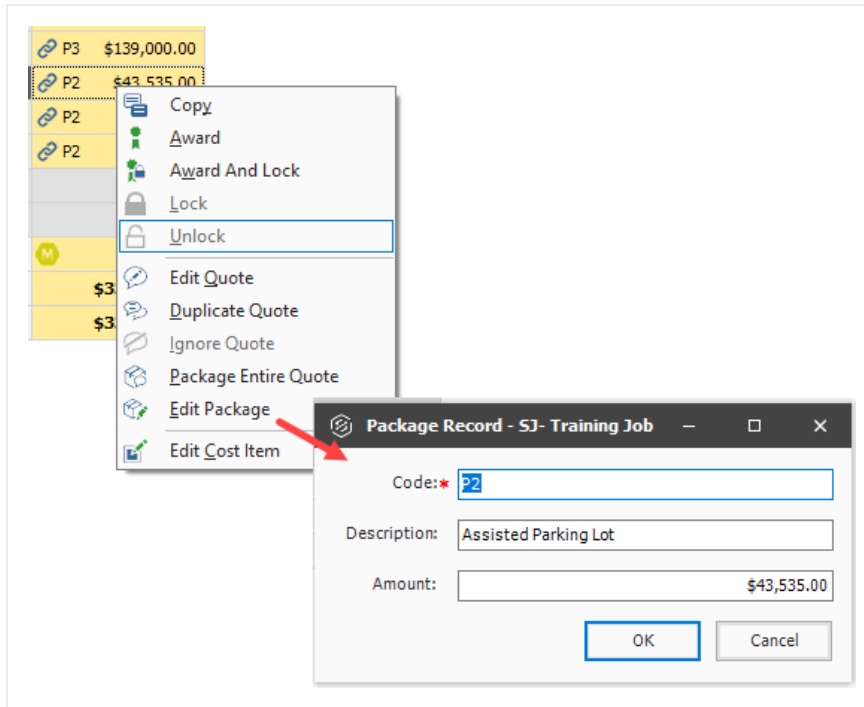
- Group** your cost items by Package so that your view is arranged by the package code and the associated cost items.

Resources		Cost Items				
Package	Code	Description	Quantity	Quote Group	Extended Price	
P1 (Demo,Exav,Grading)						
P1	1.3.1	Excavation	50,000.00		P1 \$150,780.00	
P1	1.4.2	Finegrade Subgrade	400,000.00		P1	
P1	1.5	Asphalt Concrete Hot Mix T...	35,000.00		P1	
P1	1.6	Grading	1.00		P1	
P2 (Assisted Parking Lot)						
P2	4.1	Process Equipment	1.00	Process Equipment ...	P2 \$43,535.00	
P2	4.2.1	Remove & Dispose Contents	2.00		P2	
P2	5.1.1	Site Preparation	1.00		P2	
P3 (Paving)						

16. Click **OK**.
17. Under the Quote Comparison and Award ribbon, select **Cost Items**.
18. Under Quote Groups, select **Commercial Work**. See 8.1 Quote Management Overview on page 18 for more information on quote groups.
 - Quote Comparison and Award shows the newly created quote with the associated package quotes.

Quote Group(s)	Quote Register	Quote Comparison & Award - Cost items																																																																																										
<input checked="" type="checkbox"/> Description <input checked="" type="checkbox"/> Commercial Work	<table border="1"> <thead> <tr> <th>CBS Position Code</th> <th>Description</th> <th>Forecast (T/O)</th> </tr> </thead> <tbody> <tr><td>1.3.1</td><td>Excavation</td><td>50,000.00</td></tr> <tr><td>1.4.2</td><td>Finegrade Subgrade</td><td>400,000.00</td></tr> <tr><td>1.5</td><td>Asphalt Concrete Hot Mix Type A</td><td></td></tr> <tr><td>1.6</td><td>Grading</td><td></td></tr> <tr><td>1.7</td><td>Paving</td><td></td></tr> <tr><td>4.1</td><td>Process Equipment</td><td></td></tr> <tr><td>4.2.1</td><td>Remove & Dispose Contents</td><td></td></tr> <tr><td>5.1.1</td><td>Site Preparation</td><td></td></tr> <tr><td colspan="3">Scope Items</td></tr> <tr><td colspan="3">Summary</td></tr> <tr><td colspan="3">Minority Type</td></tr> <tr><td colspan="3">Quoted Total</td></tr> <tr><td colspan="3">Comparable Total</td></tr> </tbody> </table>	CBS Position Code	Description	Forecast (T/O)	1.3.1	Excavation	50,000.00	1.4.2	Finegrade Subgrade	400,000.00	1.5	Asphalt Concrete Hot Mix Type A		1.6	Grading		1.7	Paving		4.1	Process Equipment		4.2.1	Remove & Dispose Contents		5.1.1	Site Preparation		Scope Items			Summary			Minority Type			Quoted Total			Comparable Total			<table border="1"> <thead> <tr> <th>Detail</th> <th>Amount</th> <th>Quote Group</th> <th>Extended Price</th> </tr> </thead> <tbody> <tr> <td>Lewis Concrete Site work</td> <td>\$86,157.33</td> <td>P1</td> <td>\$150,780.00</td> </tr> <tr> <td></td> <td>\$75,848.36</td> <td>P1</td> <td></td> </tr> <tr> <td></td> <td>\$3,221,162.41</td> <td>P1</td> <td></td> </tr> <tr> <td></td> <td>\$5,451.61</td> <td>P1</td> <td></td> </tr> <tr> <td></td> <td>\$5,451.61</td> <td>P3</td> <td>\$139,000.00</td> </tr> <tr> <td></td> <td>\$1,630,388.68</td> <td>P2</td> <td>\$43,535.00</td> </tr> <tr> <td></td> <td>\$9,595.41</td> <td>P2</td> <td></td> </tr> <tr> <td></td> <td>\$3,664.55</td> <td>P2</td> <td></td> </tr> <tr> <td colspan="4">Summary</td> </tr> <tr> <td></td> <td>\$5,037,719.98</td> <td>DBE</td> <td>\$333,315.00</td> </tr> <tr> <td></td> <td>\$5,037,719.98</td> <td></td> <td>\$333,315.00</td> </tr> </tbody> </table>	Detail	Amount	Quote Group	Extended Price	Lewis Concrete Site work	\$86,157.33	P1	\$150,780.00		\$75,848.36	P1			\$3,221,162.41	P1			\$5,451.61	P1			\$5,451.61	P3	\$139,000.00		\$1,630,388.68	P2	\$43,535.00		\$9,595.41	P2			\$3,664.55	P2		Summary					\$5,037,719.98	DBE	\$333,315.00		\$5,037,719.98		\$333,315.00
CBS Position Code	Description	Forecast (T/O)																																																																																										
1.3.1	Excavation	50,000.00																																																																																										
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Summary																																																																																												
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	\$5,037,719.98		\$333,315.00																																																																																									

- If necessary, you can modify the package price 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:

Total Tax:

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 [X]

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.

Estimate	Quote	Price	Execution	System	Actions
Refresh	Default Data Blocks				View

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

1. Open your job.
2. From the InEight Estimate landing page, select the **Quote** tab.
3. Select **Request for Quote (RFQ)**.
4. Open the **RFQ record** for which you've received quotes (e.g. Aggregates RFQ).

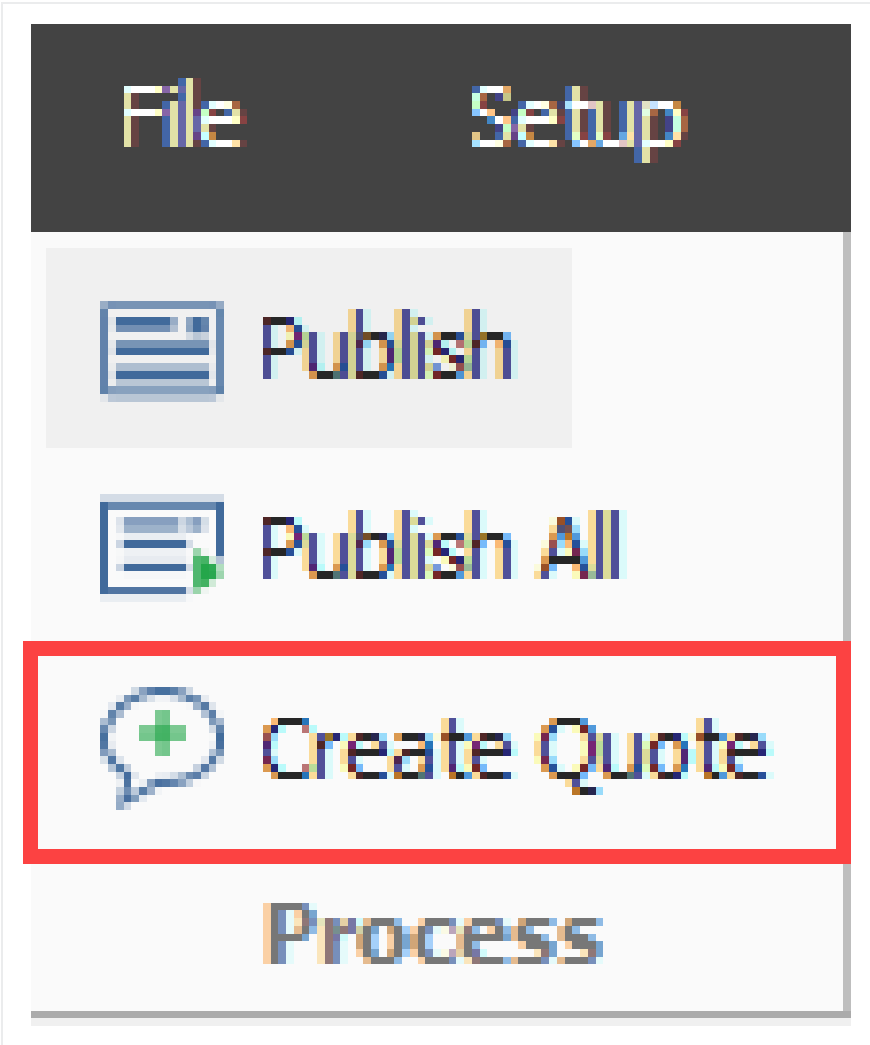
Description	Status	Response Deadline Date	Response Deadline Time	Published Date	RFQ Instru
Aggregates	Published	1/31/2020	2:00 PM	11/14/2019	
Guardrail Items	New	1/3/2020	11:00 AM		

5. Select the **Vendor Companies** tab and select the vendor for whom you need to create quotes.

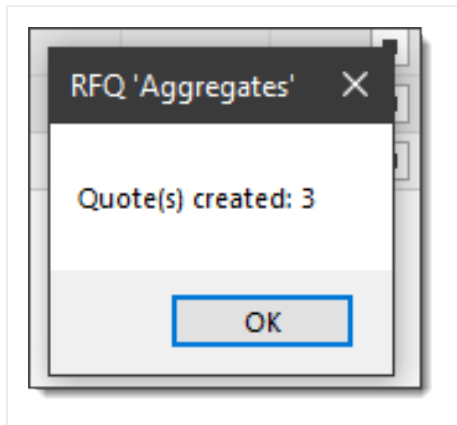
Vendor	Contact	Stat
1128354 Alberta Ltd -- 0010106779	Alberta Ltd -- Tom Cross	New

6. From the Actions menu, select **Create Quote**.

- InEight Estimate will create quotes for each of the sellers you selected



- A prompt indicates how many quotes were created, then click OK



7. Close the RFQ Record and the RFQ Register.
8. To open the Quote Register, select **Quote** from the InEight Estimate landing page.
9. Select **Quotes** from the Quote Management section.
 - The quotes that you created from RFQ are now listed on the Quote Register

A screenshot of a web application interface showing a table titled "Quote Register". Above the table is a header with the title and a refresh icon. Below the header is a text prompt "Drag columns here to group". The table has five columns: "Description", "RFQ Description", "Quote Status", and "Vendor". The first column has a right-pointing arrow icon. Three rows of data are visible, each with a red border around it. The data in the rows is as follows:

Description	RFQ Description	Quote Status	Vendor
Aggregates	Aggregates	Accepted	Example Vendor 1 -- Pat Roberts
Aggregates	Aggregates	Accepted	Example Vendor 4 DBE -- Lester Slim
Aggregates	Aggregates	Accepted	Example Vendor 2 -- Stan Mark

8.3.10 Enter Quote Details

Now that you have quotes created, you can enter pricing.

Step by Step — Enter Quote Details

1. Open the Quote Record for a seller.
2. On the Resources tab, make sure No Split is unchecked for all items.

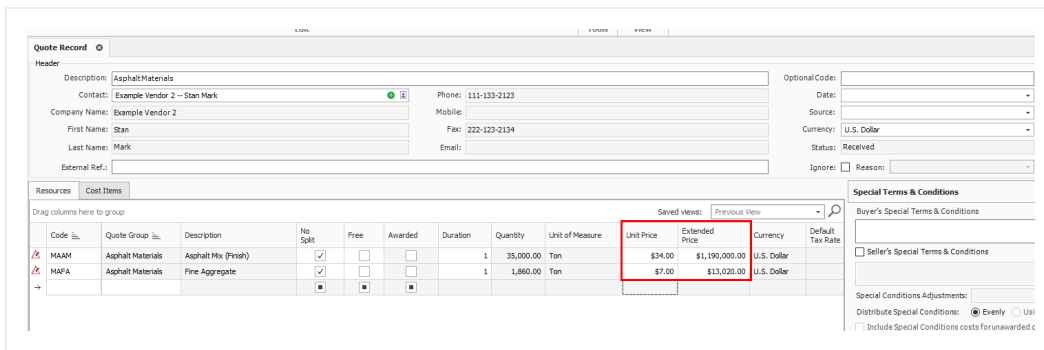
- Also on the Item Resources & Cost Items tab, now enter the following **unit prices** for the resources:

Resource Code	Description	Unit Price
MBR	Aggregate Base Rock	\$8.00
MDIRTB	Dirt Class B	\$6.00

- Click **OK** to close the Quote Record.

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.



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

- From the InEight Estimate landing page, select the **Quote** tab.
- Select the **Resources** icon under Quote Comparison & Award.
- Highlight any row under the Quote column you want to duplicate.

Cost Breakdown Structure (CBS) Register		Quote Register		Quote Comparison & Award - Resources						
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	\$34.13	\$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	\$31.50	\$3.28	\$3.28	\$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
MPR36	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

4. Select the **Actions** tab.

5. Under the Quotes section, select the **Duplicate Quote** icon.

The screenshot shows the software interface with the 'Actions' tab selected. The 'Duplicate Quote' icon is highlighted with a red box, and a red arrow points to it from the right. Below the actions bar is the same table as shown in the previous screenshot, but with a red box around the 'Example Vendor 1 Asphalt Materials' price of \$31.50 for the MPP10 resource.

- 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.

The screenshot displays the 'Quote Record' tab in a software application. The interface is divided into several sections:

- Header:** Contains fields for Description (Asphalt Materials (Copy)), Contact (<Ad-Hoc Address>), Company Name, First Name, Last Name, External Ref., Phone, Mobile, Fax, Email, Optional Code, Date, Source, Currency (U.S. Dollar), Status (Received), and Ignore/Reason.
- Total:** A summary section on the right showing Extended Price (\$1,062,834.00), Item Taxes (\$53,141.70), Quote Tax, Bond, Item Conditions (\$0.00), and Special Conditions, with a final Total of \$1,115,975.70.
- Resources:** A table with columns for Code, RFQ ID, Quote Group, Optional Code, Description, No Split, and Free.
- Minority:** A section titled 'Minority Business Enterprise' with a checkbox for 'Seller qualifies as the following type of MINORITY BUSINESS ENTERPRISE on this job:' and radio button options for DBE, MBE, WBE, OBE1, OBE2, OBE3, OBE4, OBE5, and OBE6, each with a corresponding certification field.
- Navigation:** A bottom bar with tabs for Special Terms & Conditions, Qualifications, Packages, Taxes, Seller's Profile, Setup, and Minority. The 'Minority' tab is currently selected and highlighted with a red box.

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 InEight 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.		

Resource Code	Description	Unit Price
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 <i>Seller is NOT willing to split items.</i>		

You should end up with the following results

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.

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, Drag columns 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.

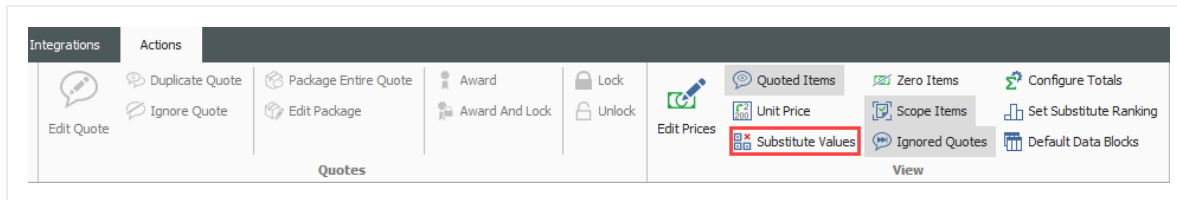
8.4.3 Substitute Values

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.



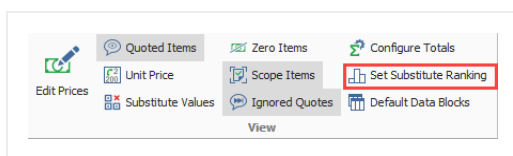
You can tell when it's a substitute value because the price displays in italics.

								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:

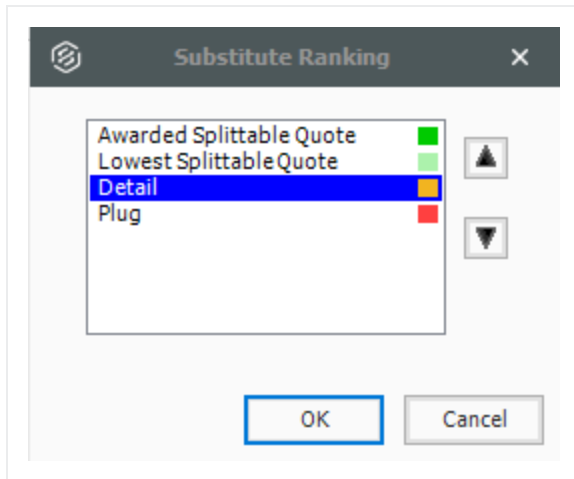
1. Awarded splittable quote
2. Lowest splittable quote you've received
3. Detail (this only applies to quoting cost items)
4. Plug cost (the rate defined for that resource in InEight Estimate)

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.



Note that the substitute values are color-coded so that back on the Quote Comparison & Award form you can see the source that your substitute value comes from. When you hover over a substitute value it displays the vendor whose substitute value has been used.

Example Vendor 1 Pipe Materials for site improvement 2	Architectural Designs, Inc. Electrical Work
P1	\$300,000.00
P2	\$125,000.00
	<i>\$4,200.00</i>
	<i>\$4,450.00</i>
	HD Engineering Group Lowest Splittable Quote

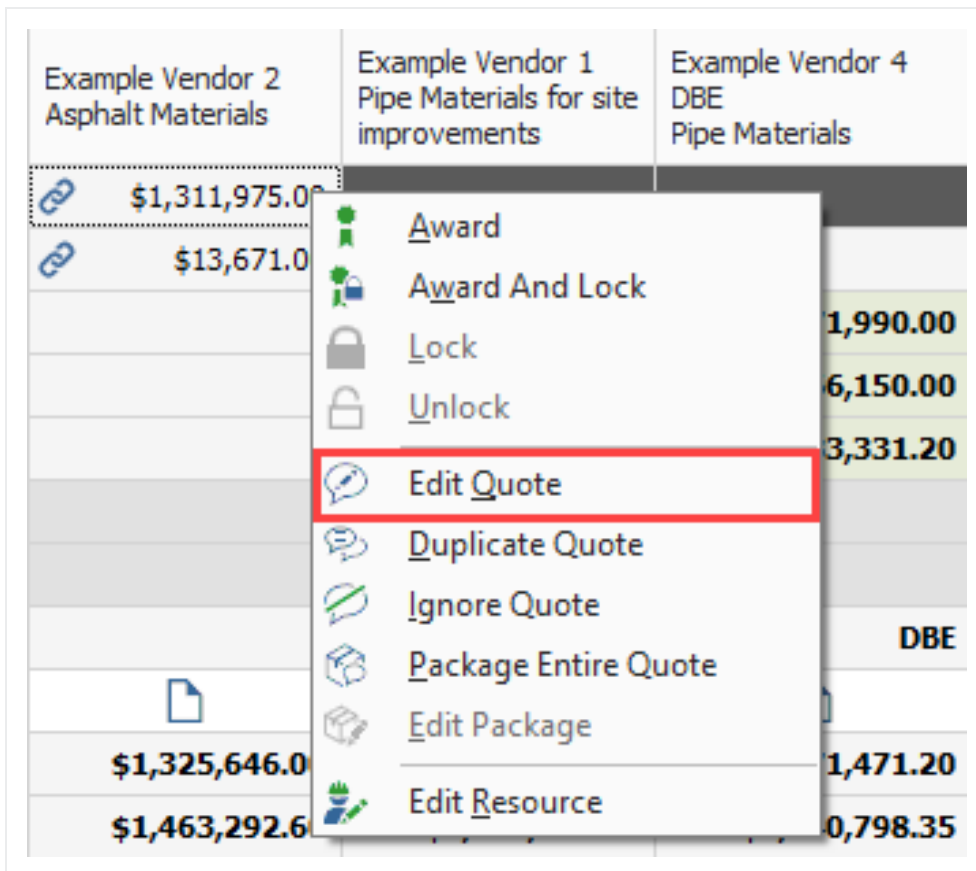
When you use a substitute value, it is included in your Comparable Total so you can have a more realistic comparison of your quotes.

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Me...	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 ...	\$24.00	\$24,000.00	\$25.00	\$25.00	\$24.00	\$25.00	\$50.00	
19	Guardrail Type 3A	200.00	Linear ...	\$31.00	\$6,200.00	\$35.00	\$35.00	\$31.00	\$30.00	\$35.00	
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	
Scope Items Summary											
Minority Type											
Quoted Total							\$57,000.00	\$25,264.55	\$30,200.00	\$71,000.00	\$50,000.00
Comparable Total							\$57,000.00	\$57,264.55	\$55,464.55	\$71,000.00	\$82,264.55
Awarded Total							\$0.00	\$0.00	\$30,200.00	\$40,000.00	\$0.00
Quoted Items Total							\$57,000.00	\$25,264.55	\$30,200.00	\$71,000.00	\$50,000.00
Special Conditions							\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Last Update									7/29/2009 2:21:...	11/13/2019 9:0:...	11/13/2019 1:0:...

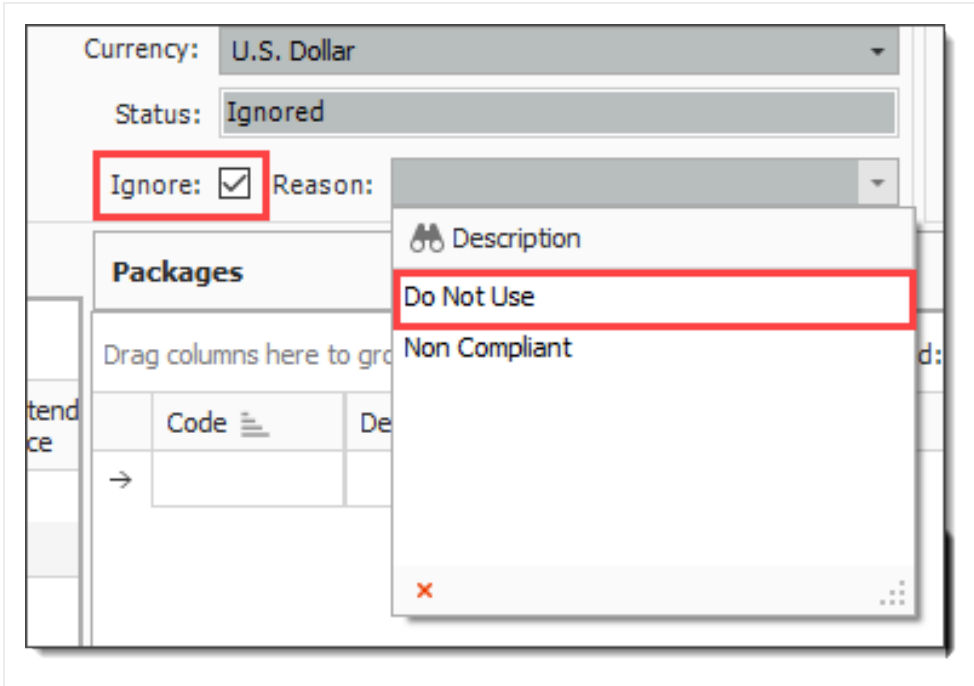
8.4.4 Display Ignored Quotes

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.

Tools: Award, Award And Lock, Lock, Unlock, Edit Prices, Quoted Items, Unit Price, Substitute Values, Ignored Quotes, Zero Items, Scope Items, Configure Totals, Set Substitute Ranking, Default Data Blocks, Session Recap, Auto Award.

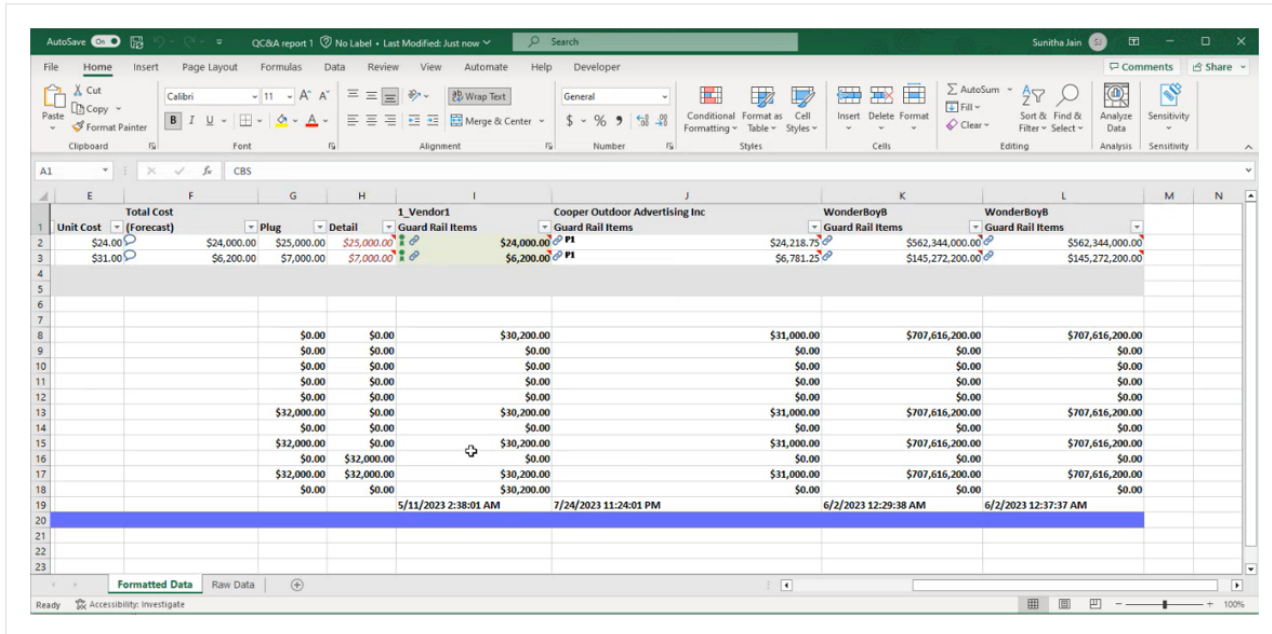
Quote Comparison & Award - Cost items

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

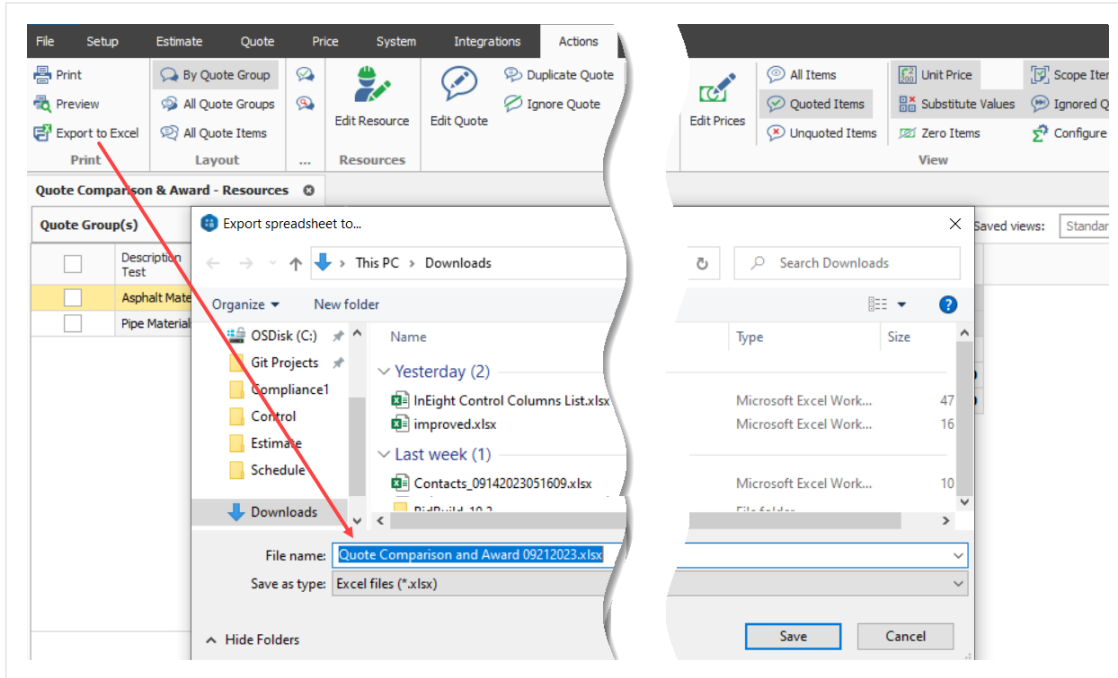
8.4.5 Export Quote Comparison and Award to Microsoft Excel

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.



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

Description	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)	Plug	Detail	CBH Concrete Construction, Inc. Concrete Placement	Krupp Construction Concrete Formwork	Morrin Concrete Contractions Concrete Placement	* Case Construction Concrete Formwork
formwork	1.00	Lump Sum	\$2,339,113.70	\$2,339,113.70	\$1,281,200.00	\$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	\$53,500.00
Summary										
Minority Type										
Notes										
Quoted Total										
Comparable Total										

8.4.7 Configure Totals

You can display and sort additional Summary Totals, Special Conditions, and Last Updated fields by selecting **Actions > Configure Tools**.

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

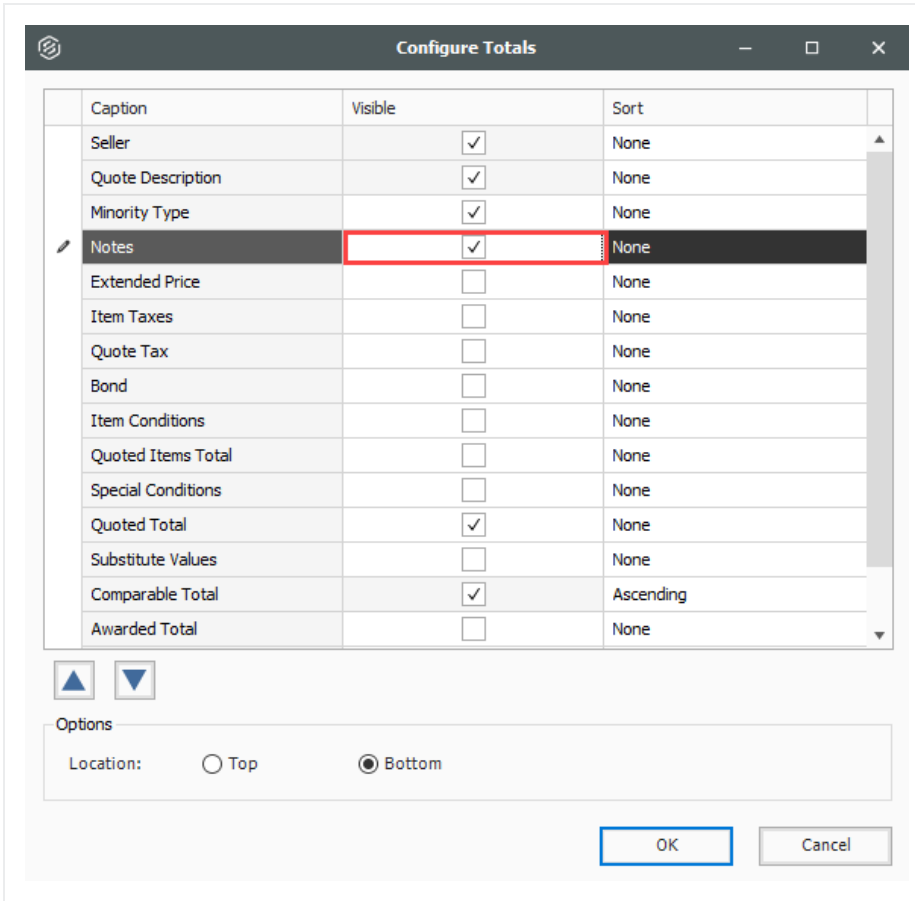
The Notes feature within the Configure Totals tool, allows you to quickly add, edit, and view notes for a quote in the Quote Comparison & Award form. Having visibility into the notes such as phone conversations with vendor/supplier, quotes that need clarification, or notes on other attributes will help 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.

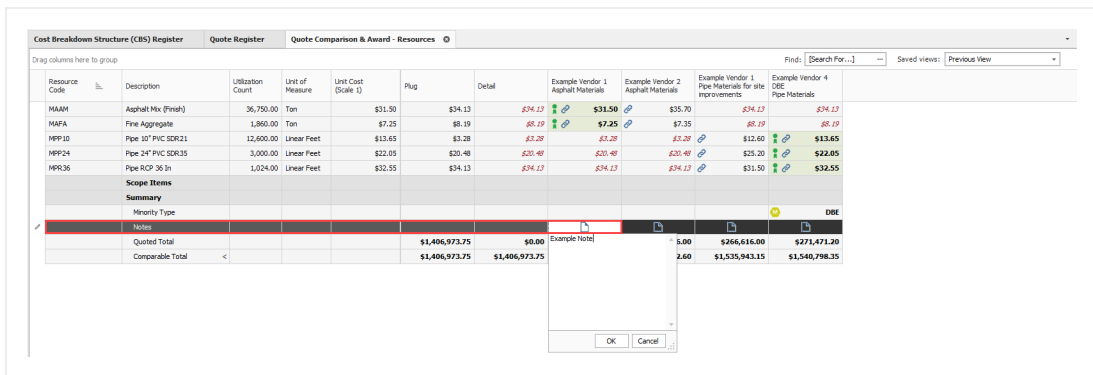
Resource Code	Description	Utilization Count	Unit of Measure	Unit Cost (Scale 1)	PLUG	Detail	Example Vendor 1 Asphalt Materials	Example Vendor 2 Asphalt Materials	Example Vendor 1 Pipe Materials for site improvements	Example Vendor 4 DBE Pipe Materials
MAAM	Asphalt Mix (Final)	36,750.00	Ton	\$31.90		\$34.13	\$24.17	\$31.50	\$35.70	\$24.17
MAFA	Fine Aggregate	1,860.00	Ton	\$7.25		\$8.19	\$5.19	\$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	\$22.05
MPR36	Pipe RCP 36 In	1,024.00	Linear Feet	\$32.55		\$34.13	\$24.17	\$24.17	\$24.17	\$31.50
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
	Comparable Total	<				\$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.



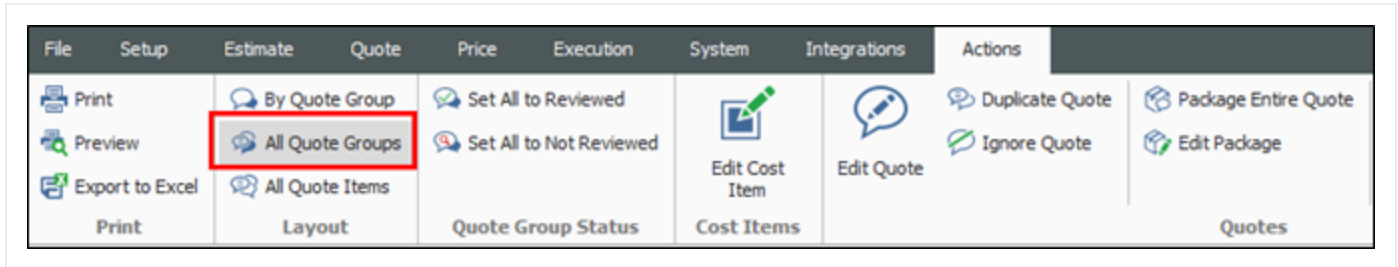
6. Select **OK**.

- The Notes section displays on the Quote Comparison & Award form.



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

Quote Group	Plug	Detail	Quote	Quote Group Total				
Asphalt Materials	\$0.00	\$0.00	\$1,171,100.70	\$1,171,100.70				
Resource Code	Description	Utilization Count	Unit of Measure	Unit Cost (Scale 1)	Plug	Detail	Example Vendor 1 Asphalt Materials	Example Vendor 2 Asphalt Materials
MAAM	Asphalt Mix (Finish)	36,750.00	Ton	\$31.50	\$34.13	\$34.13	\$31.50	\$35.70
MAFA	Fine Aggregate	1,860.00	Ton	\$7.25	\$8.19	\$8.19	\$7.25	\$7.35
Scope Items Summary								
Minority Type								
Quoted Total					\$1,269,327.15	\$0.00	\$1,171,100.70	\$1,325,646.00
Comparable Total					\$1,269,327.15	\$1,269,327.15	\$1,171,100.70	\$1,325,646.00
Awarded Total: \$1,171,100.70					\$0.00	\$0.00	\$1,171,100.70	\$0.00
Pipe Materials	\$0.00	\$0.00	\$271,471.20	\$271,471.20				
Resource Code	Description	Utilization Count	Unit of Measure	Unit Cost (Scale 1)	Plug	Detail	Example Vendor 3 Pipe Materials	Example Vendor 4 DBE Pipe Materials
MPP10	Pipe 10" PVC SDR21	12,600.00	Linear Feet	\$13.65	\$3.28	\$3.28	\$12.60	\$13.65
MPP24	Pipe 24" PVC SDR35	3,000.00	Linear Feet	\$22.05	\$20.48	\$20.48	\$25.20	\$22.05
MPR36	Pipe RCP 36 In	1,024.00	Linear Feet	\$32.55	\$34.13	\$34.13	\$31.50	\$32.55
Scope Items Summary								
Minority Type								DBE
Quoted Total					\$137,646.60	\$0.00	\$266,616.00	\$271,471.20
Comparable Total					\$137,646.60	\$137,646.60	\$266,616.00	\$271,471.20
Awarded Total: \$271,471.20					\$0.00	\$0.00	\$0.00	\$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.


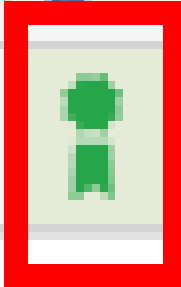
8.4.10 Compare and Award Quotes

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
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
\$500.00		
<input checked="" type="checkbox"/>		
		DBE
\$11,000.00		\$11,000.00
\$0.00		\$0.00
\$0.00		\$0.00

- Award
- Award And Lock
- Lock
- Unlock
- Edit Quote
- Duplicate Quote
- Ignore Quote
- Package Entire Quote
- Edit Package
- Edit Cost Item

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...	\$40,000...	\$25,000.00	\$25,264.55	\$25,264.55	\$40,000.00
18	Guardrail Type 2	1,000.00	Linear ...	\$25.00	\$25,000...	\$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	\$15,000...	\$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 For...]

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, Stitework
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 Find: [Search For...]

Quote Group(s)	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	Architectural Design, Inc. Electrical Work	Example Sub #3 Sign Items	
Electrical Work	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	
Guardrail Work	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	
Sign Work	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	
	20 Type 4 Signs	1,000.00	Square F...	\$15.00	\$15,000.00	\$15,000.00	\$13,000.00	\$13,000.00	\$13,000.00	\$13,000.00	\$13,000.00	\$13,000.00	\$13,000.00	
	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	\$3,700.00	\$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	\$98,964.55	\$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.

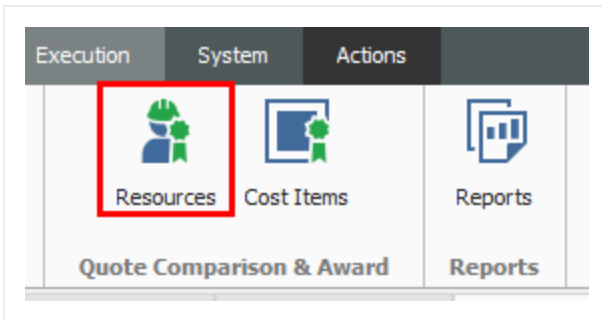
Quote Group(s) ×		
<input checked="" type="checkbox"/>	Description ☰	Reviewed
<input checked="" type="checkbox"/>	Electrical Work	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Guardrail Work	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Sign Work	<input checked="" 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.

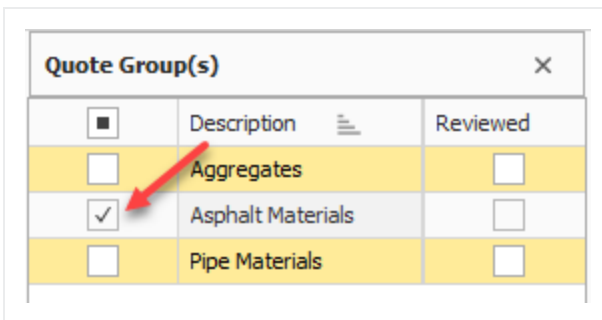
The following steps walk you through comparing and awarding the Aggregate quotes.

Step by Step — Compare and Award Quotes

1. Open the **Training job**, and from the main InEight Estimate landing page select **Quote>Quote Comparison & Award**.
2. Select **Resources** on the Quote Comparison & Award ribbon.



3. Under Description, select **Asphalt Materials**.

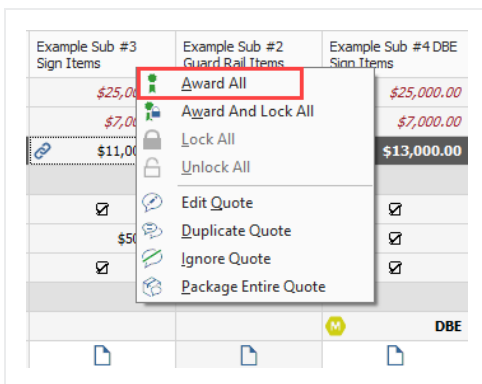


4. Review the quotes to determine the lowest bidder:

- Select the Configure Total icon in the tool ribbon to view additional captions
- Both vendors have no split items for both resources.

Resource Code	Description	Utiliza... Count
MAAM	Asphalt Mix (Finish)	36,750.00
MAFA	Fine Aggregate	1,860.00
Scope Items		
Summary		
Minority Type		
Quoted Total		
Comparable Total <		
Awarded Total		
Quoted Items Total		
Special Conditions		
Last Update		

- Example Vendor 1 has the lowest comparable amount, so award all to Vendor 1 by right clicking on the Example Vendor 1 Asphalt Materials and selecting **Award All**.



- By awarding Example Vendor 1 both resources, the award ribbon icon displays next to the unit price.

Detail	Example Vendor 1 Asphalt Materials	Example Vendor 2 Asphalt Materials
\$34.13	\$31.50	\$35.70
\$8.19	\$7.25	\$7.35

- You could also change your mind and award Example Vendor 2 one of the resources. In this case, award resource code MAFA to Example Vendor 2.

6. Right click on \$7.35 under Example Vendor 2, and select **Award**.

- You now have awarded resource code MAFA to Example Vendor 2.

Detail	Example Vendor 1 Asphalt Materials	Example Vendor 2 Asphalt Materials
\$34.13	\$31.50	\$35.70
\$8.19	\$7.25	\$7.35

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.

The screenshot shows the software interface for quote management. In the top toolbar, the 'Package Entire Quote' button is highlighted with a red box. Below the toolbar, a table of quote items is displayed. A context menu is open over one of the items, and the 'Package Entire Quote' option is also highlighted with a red box.

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	Barton Concrete Services, Inc. Concrete, Sitework	C&H Concrete Construction, Inc. 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	\$217,213.00
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	\$9,230.60	\$9,230.60
3.1.10	Rolled curb adjacent to...	50.00	LF	\$34.51	\$1,725.32	\$1,725.32	\$1,725.32	P1		P1	\$1,725.32	\$1,725.32
3.1.11	Reinforcing	2,612.40	lb	\$4.59	\$12,000.00	\$12,000.00	\$12,000.00	P1	\$1,306.20	P1	\$1,306.20	\$1,306.20

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	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
Concrete, Precast	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, Stework	Concrete, Stework	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
Concrete, Structural	Concrete, Structural	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
Scope Items												
	Demolition											
	Caulking, Sealants & Backer Rod											
	Scaffolding											
	Shoring/Bracing					\$15,000.00						
	Testing/Inspection											
Summary												
	Minority Type											
	Notes											
	Quoted Total							\$4,422,000.00	\$1,708,826.67	\$512,648.00	\$574,764.00	\$0.00
	Comparable Total							\$4,422,000.00	\$1,730,826.67	\$512,648.00	\$574,764.00	\$1,730,826.67

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.

Special Terms & Conditions
✕

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 Conditions: 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"/>	\$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) x <input checked="" type="checkbox"/> Electrical Work <input type="checkbox"/> Electrical work 2 <input type="checkbox"/> Electrical work 3 <input type="checkbox"/> Guardrail Work <input type="checkbox"/> Pipe Materials <input type="checkbox"/> Sign Work			Drag 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			
1 Scope Items												
	Permits							<input type="checkbox"/>	2 <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							3 <input type="checkbox"/>	<input type="checkbox"/>			
	Painting Electrical Equipment							<input type="checkbox"/>	4 \$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...			

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: *

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	
→			

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 — Create and Award Scope Items

1. Open the **Training Job**.
2. Select the **Setup** tab.
3. Click on **Foundation Data Setup** in the Initialize section.
4. Select the **Quote Group Tags** tab to setup Scope Items within a Quote Group.
5. Create a new Quote Group Tag called **Electrical Work** and click **OK**.

Foundation Setup Data Register ✖

Account Codes | Tags | Work Breakdown Structures | Quote Group Tags

Drag columns here to group

	Description	Award Status	Utilized In Quotes
+	Aggregates	Complete	<input checked="" type="checkbox"/>
+	Asphalt Materials	Complete	<input checked="" type="checkbox"/>
+	Bridge Work	Complete	<input type="checkbox"/>
+	Commercial Work	Complete	<input type="checkbox"/>
+	Concrete Beams	Complete	<input type="checkbox"/>
+	Concrete Materials	Complete	<input type="checkbox"/>
→ +	Electrical Work	Complete	<input type="checkbox"/>

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

7. Enter **500** in the Amount field for Survey and Layout, and **300** for Temporary Power and Lighting.
 - If any of these default columns are missing, click on one of the headers, and right click. Select **Column Chooser** and drag the item(s) over to the header bar, then 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	

8. Click **OK**.
9. Select the **Estimate** tab.
10. Click on **Cost Breakdown Structure (CBS)**.
11. Change your Saved Views to **Quote Group Setup View**.
12. Create a cost item **Entry Gate** with a subordinate **Electrical Work**.
13. Assign **Quote Group Electrical Work** to the Electrical Work cost item.

CBS Position Code	Description	Forecast (T/O) Quantity
26	Entry Gate	1.00
+ 26.1	Electrical Work	1.00

14. Select the **Quote** tab.
15. Click **Request For Quote (RFQ)** to open the RFQ Register.
16. Create an RFQ for the Electrical Work cost item by selecting the **New** icon on the Actions tab.
17. Select **Create RFQ from Quote Group Tag(s)** and select **Electrical Work**.

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

[Uncheck All]

[Blanks]

Aggregates

Asphalt Materials

Commercial Work

Concrete Materials

Guardrail Work

Landscaping Work

Manhole Materials

None

Painting Materials

Pipe Materials

Process Equipment Install

Process Materials

Sign Work

Structural Painting

Electrical Work

OK

Cancel

18. Click **OK**.

19. Click on the **Seller Companies** tab and select the following Company Names:

- Architectural Designs
- HD Engineering Group

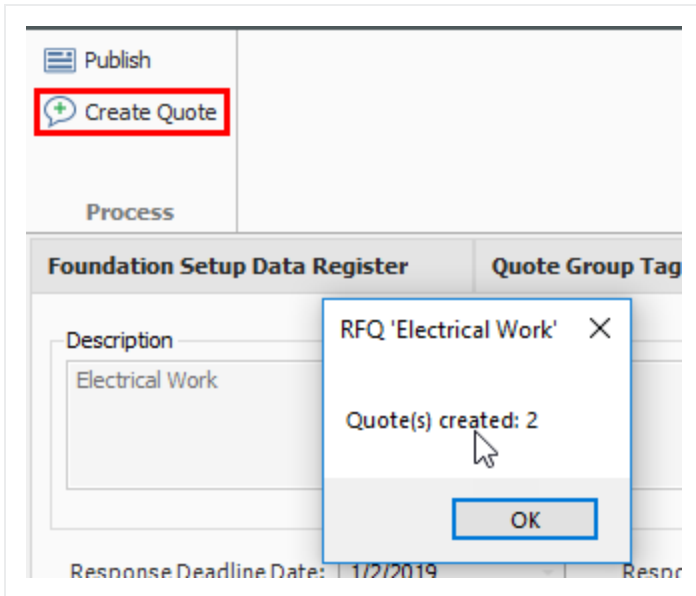
20. Highlight both companies and select **Publish**.

- Make sure the appropriate boxes are checked and fields filled out for publishing either by fax or by email prior to publishing

The screenshot shows a software interface for managing quotes. At the top left, there are two buttons: 'Publish' (highlighted with a red box) and 'Create Quote'. Below these is a 'Process' section with two tabs: 'Foundation Setup Data Register' and 'Quote Group Tag Record'. A 'Description' field contains the text 'Electrical Work'. Below the description is a 'Response Deadline Date' dropdown menu set to '1/2/2019'. Underneath are four tabs: 'Line Items', 'Terms & Conditions', 'Seller Companies', and 'Attachment'. The 'Seller Companies' tab is active, showing a table with the following data:

Drag columns here to group			
	Company Name	First Name	Last Name
	Architectural Designs, Inc. -- Jones ...	Jones	Hardy
→	HD Engineering Group -- Roger C...	Roger	Croon
*			

21. Assuming that 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**.



22. Click **OK** to close the RFQ record.
23. Select the **Quote >Quotes** tab to open the Quote Register.
 - Note the 2 quotes that were just created for Electric Work

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

24. Open the Quote Record for HD Engineering Group and enter a Unit Price of **3,500**, which is based on the quote you received.
25. Select the **Special Terms & Conditions** tab and select the **Seller's Special Terms & Conditions** radio button.

- You now have visibility for all of scope items for this quote

Row Number	Scope Item	Quote Group	Inclusions	Amount	% of Total
1	Permits	Electrical Work	<input checked="" type="checkbox"/>		
2	Surveying and Layout	Electrical Work	<input checked="" type="checkbox"/>		
3	Temporary Traffic Cont...	Electrical Work	<input checked="" type="checkbox"/>		
4	Trench and Backfill for E...	Electrical Work	<input checked="" type="checkbox"/>		
5	Painting Electrical Equip...	Electrical Work	<input checked="" type="checkbox"/>		
6	Temporary Power and L...	Electrical Work	<input checked="" type="checkbox"/>		

26. Assuming 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

Include Special Conditions costs for unawarded quotes in Comparable Totals

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

Row Number	Scope Item	Quote Group	Included	Notes
1	Permits	Electrical Work	<input checked="" type="checkbox"/>	
2	Surveying and Layout	Electrical Work	<input type="checkbox"/>	
3	Temporary Traffic Contr...	Electrical Work	<input checked="" type="checkbox"/>	

27. Type **150** in the Amount field for Painting Electrical Equipment.

- Notice how the 3 scope items you just excluded are now added to the Special Conditions total for the quote

Total	
Extended Price:	\$3,500.00
Item Taxes:	\$0.00
Quote Tax:	
Bond:	
Item Conditions:	\$0.00
Special Conditions:	\$950.00
Total:	\$4,450.00

28. Click **NEXT** to move to the other Quote Record for Architectural Designs.
29. Enter a Unit Price of **3,700**.
30. Press **Tab** to move to the **Special Terms & Conditions** tab and select the **Seller's Special terms & Conditions (at right)** radio button.
31. Uncheck the Inclusions checkbox for **Surveying and Layout**
32. Add the amount **500**.

Selected views: Previous View

Amount	% of Total	Notes
▶ \$500.00	14.29	
\$950.00		

33. Click **OK**.
34. Select the **Quote** tab.
35. Open the **Quote Comparison and Award** form, and select the **Cost Items** tab.
36. Under **Quote Groups**, select **Electrical Work**.

<input type="checkbox"/>	Description	Reviewed
<input checked="" type="checkbox"/>	Electrical Work	<input type="checkbox"/>
<input type="checkbox"/>	Guardrail Work	<input type="checkbox"/>
<input type="checkbox"/>	Sign Work	<input type="checkbox"/>

- You will notice that scope items with inclusions and exclusions on the quotes are now displayed in the Scope Items section. The Scope Items button needs to be pressed in the View section of the screen
- The total of all exclusions are now added to the Special Conditions section for each subcontractor

\$5,000.00	\$3,700.00	\$3,700.00	\$4,450.00
\$5,000.00	\$0.00	\$0.00	\$0.00
\$5,000.00	\$0.00	\$3,700.00	\$3,500.00
\$0.00	\$0.00	\$500.00	\$950.00

TIP

If your Special Conditions row is missing, click the Substitute Values icon on the Action tab. You can also rearrange the sequence as desired.

Caption	Visible	Sort
→ Minority Type	<input checked="" type="checkbox"/>	None
Quoted Total	<input checked="" type="checkbox"/>	None
Comparable Total	<input checked="" type="checkbox"/>	Ascending
Awarded Total	<input checked="" type="checkbox"/>	None
Quoted Items Total	<input checked="" type="checkbox"/>	None
Special Conditions	<input checked="" type="checkbox"/>	None
Last Update	<input checked="" type="checkbox"/>	None

- Most importantly, this comparison including scope items makes it clear HD Engineering Group has provided a quote of \$4,450, while Architectural Design’s quote is \$4,200

37. Right click on the quoted amount for Architectural Design and select **Award** to award the work to Architectural Design.

Architectural Designs, Inc. Electrical Work	HD Engineering Group Electrical Work
\$3,700.00	\$4,450.00
\$500.00	\$300.00
\$4,200.00	\$4,450.00
\$3,700.00	\$4,450.00
\$0.00	\$0.00
\$3,700.00	\$3,500.00
\$500.00	\$950.00
11/13/2019 1:0...	11/13/2019 2:2...

38. Click **Yes**, on the resulting prompt to mark the quote group as reviewed.

- The Architectural Design’s quote is now awarded

Detail	Architectural Designs, Inc. Electrical Work	HD Engineering Group Electrical Work
\$4,200.00	\$4,200.00	\$4,450.00
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	\$500.00	\$500.00
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	\$150.00
	<input checked="" type="checkbox"/>	\$300.00
\$0.00	\$4,200.00	\$4,450.00
\$4,200.00	\$4,200.00	\$4,450.00
\$0.00	\$4,200.00	\$0.00
\$0.00	\$3,700.00	\$3,500.00
\$0.00	\$500.00	\$950.00
	11/13/2019 1:0...	11/13/2019 2:...

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

1. From the Ribbon, select the **Quote** tab.
2. Under the Quote Comparison and Award section, select **Resources**.

3. Locate the **Example Vendor 3** column.
4. Select the quote you want to edit under the Example Vendor 3 column. In the Ribbon, select the **Actions** tab.
5. Under the Quotes section, select **Edit Quote**. You can also right-click and select **Edit Quote**. This launches the Quote Record.

Resource Code	Description	Detail	Example Vendor 3 Pipe Materials	Example Vendor 4 DBE Pipe Materials
MPR36	Pipe RCP 36 In	\$34.13	\$31.50	\$32.55
MPP24	Pipe 24" PVC SDR35	\$20.48		
MPP10	Pipe 10" PVC SDR21	\$3.28		
Scope Items				
Summary				
	Minority Type			
	Quoted Total	\$0.00		
	Comparable Total <	\$137,646.60		
	Awarded Total: \$271,...	\$0.00		
	Quoted Items Total	\$0.00		
	Special Conditions	\$0.00		
	Last Update		7/14/2	

- Award
- Award And Lock
- Lock
- Unlock
- Edit Quote
- Duplicate Quote
- Ignore Quote
- Package Entire Quote
- Edit Package
- Edit Resource

6. You can make Condition Adjustments by a percentage or an amount. Select the field to adjust the percentage or amount of the **Condition Adjustments**.

Tax Rate	Condition Adjustment Percentage	Condition Adjustment Amount	Total Price
5.00	-10.00	(\$14,400.00)	\$136,800.00
5.00	0.00	\$0.00	\$75,600.00
5.00	0.00	\$0.00	\$32,256.00

NOTE If you enter a percentage, the amount is populated based on that calculation. This is the same for entering a Condition Adjustment Amount.

7. 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**.

The screenshot shows a software interface with two tabs: "Resources" and "Cost Items". Below the tabs is a header "Drag columns here to group". A table with the following columns is displayed: Code, Unit, Quantity, and Unit of Measure. Three rows are selected and highlighted in orange: MPP10 (Unit: 1, Quantity: 12,000.00, Unit of Measure: Linear Feet), MPP24 (Unit: 1, Quantity: 3,000.00, Unit of Measure: Linear Feet), and MPR36 (Unit: 1, Quantity: 1,024.00, Unit of Measure: Linear Feet). A context menu is open over the selected rows, with the "Open" option highlighted by a red box. Other options in the menu include Delete, Cut, Copy, Paste, Fill Down, Link these fields to Excel, and UnLink from Excel.

	Code	Unit	Quantity	Unit of Measure
⚠	MPP10	1	12,000.00	Linear Feet
	MPP24	1	3,000.00	Linear Feet
→	MPR36	1	1,024.00	Linear Feet
*				

8. As you populate the 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.

Description
Varies

Item
Line Number: Varies, Code: Varies, Quantity: Varies, Unit of Measure: Linear Feet

Tags
Quote Group: Pipe Materials, Tag 1: Varies, Tag 2: Varies, Tag 3: Varies

Price & Setup | Item Note | Seller Condition

Setup
 No Split Free
Plug Unit Price: Varies
DBE Allowance %: 60.00
Default Tax Rate %: 5.00
Days Duration: 1

Condition Adjustment
Amount: Varies
Percentage: -10.00

Price
Unit Price: Varies
Extended Price: Varies
Tax Rate: 5.00
Total: Varies

9. Select **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

LESSON 9 – REPORTING

Lesson Duration: 30 Minutes

Lesson Objectives

After completing this lesson, you will be able to:

- Run reports from the Reports menu
- Create and run reports from register forms

Lesson Topics

9.1 REPORTS MENU

InEight Estimate provides a lot of out of the box reports, referred to as “canned” or “system” reports, that can help you review and analyze your estimate.

9.1.1 Non-Modal Report dialog box

The Reports dialog is docked along with the other forms and registers. You can continue to work with your estimate without being forced to close the Reports dialog box.

The screenshot shows the 'Reports - Resource Changes' dialog box docked in the software interface. The dialog box has a 'Settings' dropdown set to 'Default' and tabs for 'Print', 'Details', 'Layout', and 'Header/Footer'. The main content area displays a report titled 'Resource Changes Report - Resource(s) Added to Job Folder' for 'Hard Dollar Costs' with 'Job Code: Training Job' and 'Description: Training Job - Mericope County No. TM2924'. The report contains three tables of resource data:

Resource Type	Installed Material Rate Job							
Code	Description	Resource File Description	Unit Of Measure	Unit Cost	Organizational Category	Geographic Area	Wage Zone	Quote Group
MPR06	Pipe 6" PVC SDR21	Standard Material Rate File	Linear Feet	1.94	Pipe			
		Minority Percent	Default Quantity	0.00		Billing Rate 1	Billing Rate 2	Billing Rate 3
		6.000 00%				1.94	0.00	0.00
MPR01	Pipe 12" PVC, 45 deg bend	Standard Material Rate File	Each	131.25	Pipe			
045		Minority Percent	Default Quantity	0.00		Billing Rate 1	Billing Rate 2	Billing Rate 3
		6.000 00%				131.25	0.00	0.00
MPR01	Pipe 12" PVC, 90 deg bend	Standard Material Rate File	Each	144.00	Pipe			
090		Minority Percent	Default Quantity	0.00		Billing Rate 1	Billing Rate 2	Billing Rate 3
		6.000 00%				144.00	0.00	0.00

If the report becomes undocked, the job code shows in the reports dialog box header.

9.1.2 Adjustable Reports

Most of the reports within InEight Estimate can be adjusted to output the specific data and reporting format you need. Each report has its own set of output settings for configuring and formatting the report.

All InEight Estimate adjustable reports are accessed from the Reports menu. You may even run the same report multiple times and choose different output settings based on what you want to see or who the intended audience is.

For example, you may choose to run the CBS Details Report several times to satisfy different needs or for different audiences, and include or exclude specific data depending on what you or the report recipients want to see.

- For a group of *estimators*, you may want to run a CBS Details Report that shows all cost and productivity data for a job
- For *field personnel*, you may want to run a CBS Details Report that shows no cost data, but all production and resource data
- Finally, for *executive management*, you may want to run a CBS Details Report that shows summary level information only

The following steps take you through a brief overview of the Reports menu and how you can access it.

Step by Step — Getting to the Reports menu

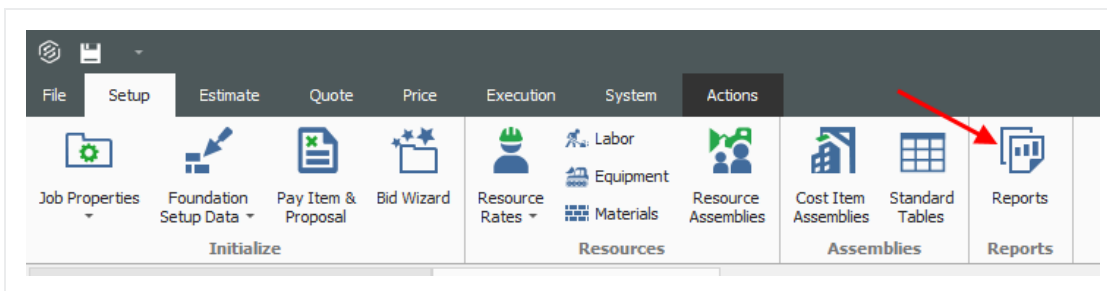
1. Open the **Training Job**, and select **Setup** tab.

- You access the Reports menu by clicking on the Reports icon

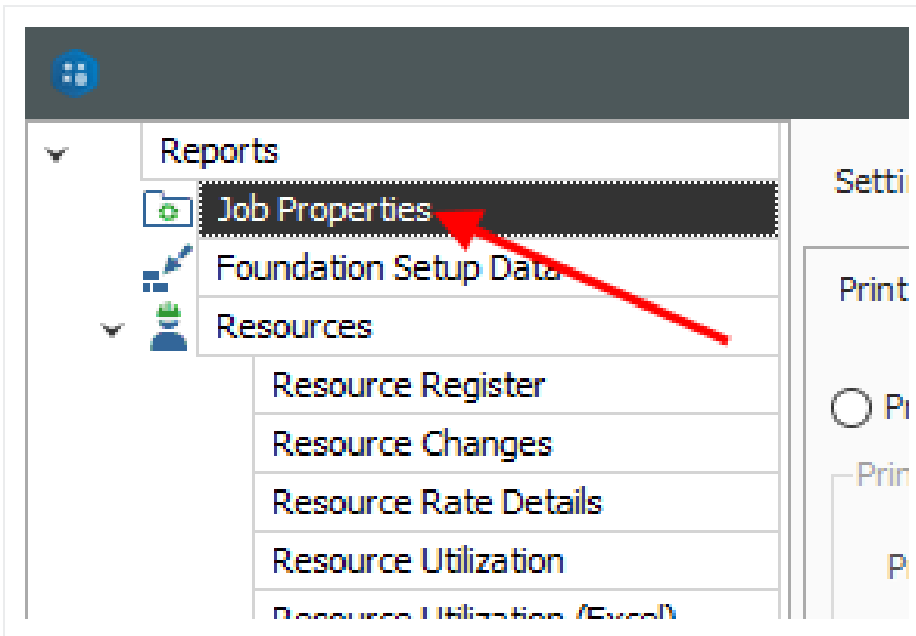
TIP

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

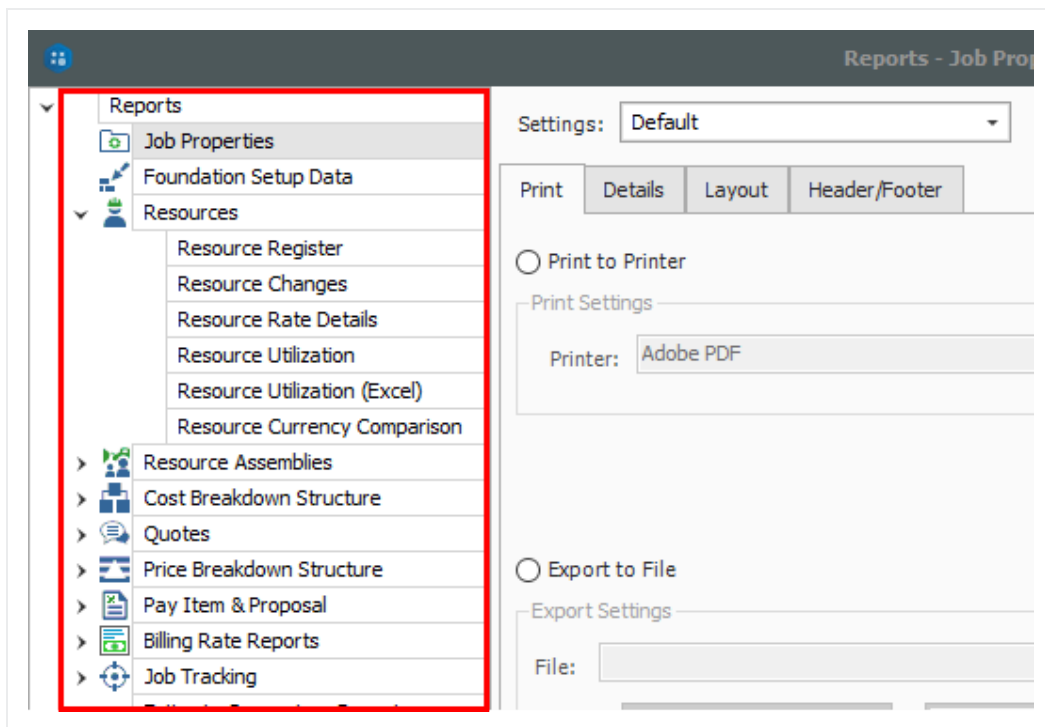
2. Select **Reports**.



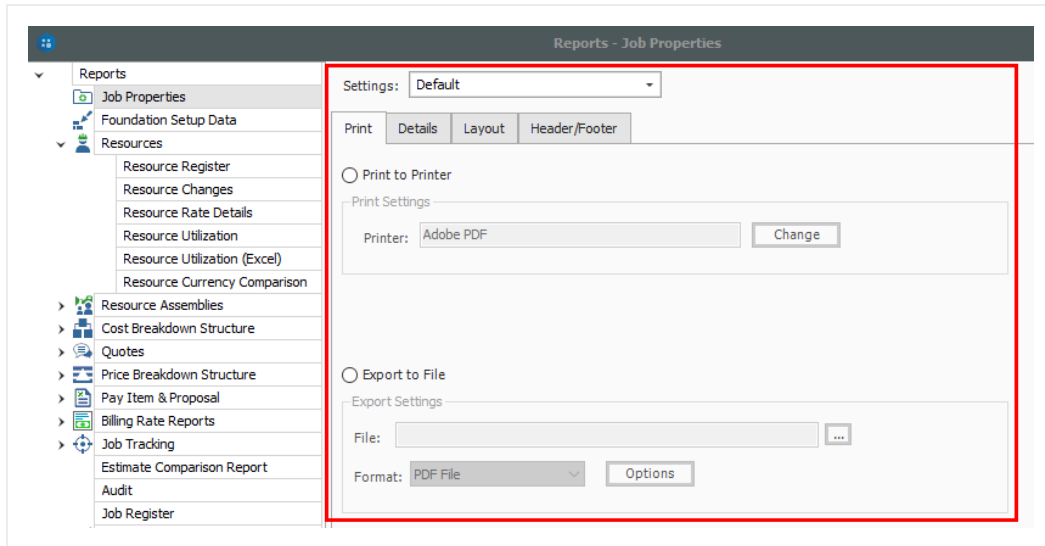
3. Here you select the Report of your choice. For this example, select the first option, **Job Properties**.



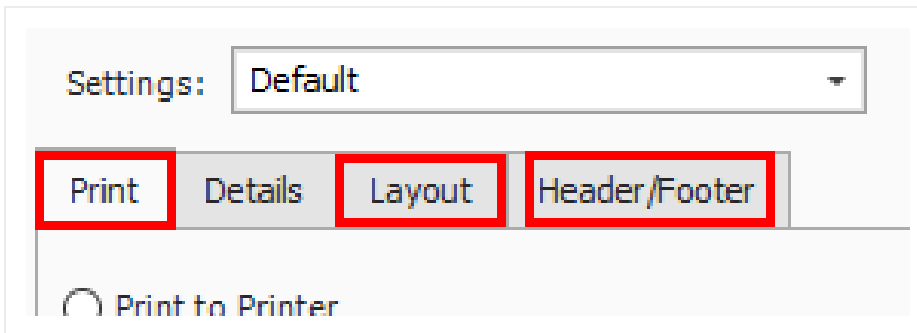
- You will see a split screen with the reports available on the left side bar
- The side bar on the left of the Reports form contains a “tree” of all InEight Estimate adjustable reports



- On the right, when you select a report node on the left, note that it displays the Output Settings on the right side of the form, from which the report settings can be adjusted and the report can then be run

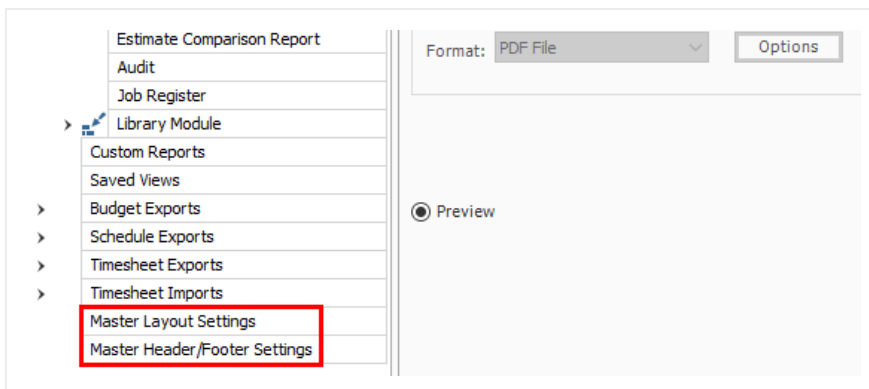


4. Each report has a Print tab, a Layout tab and a Header/ Footer tab specific to that report.



- There are also Master Layout Settings and Master Header/Footer Settings located at the bottom of the left-hand side bar tree. Here you can define settings that will apply to all

reports



9.1.3 Output Settings

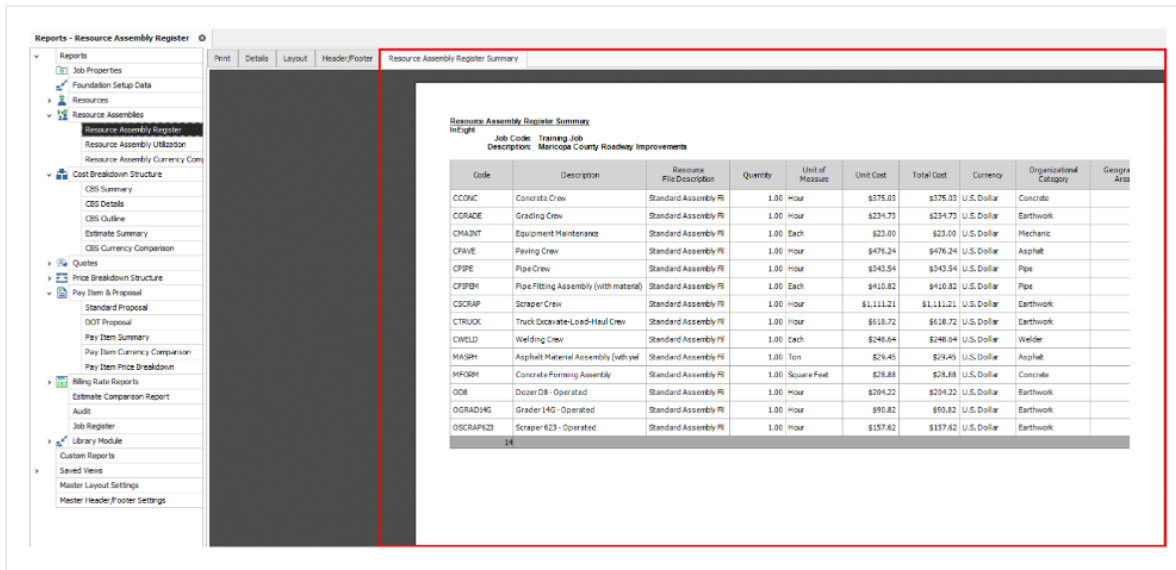
This section provides a more detailed explanation of the output setting tabs.

9.1.3.1 Report Printing Options

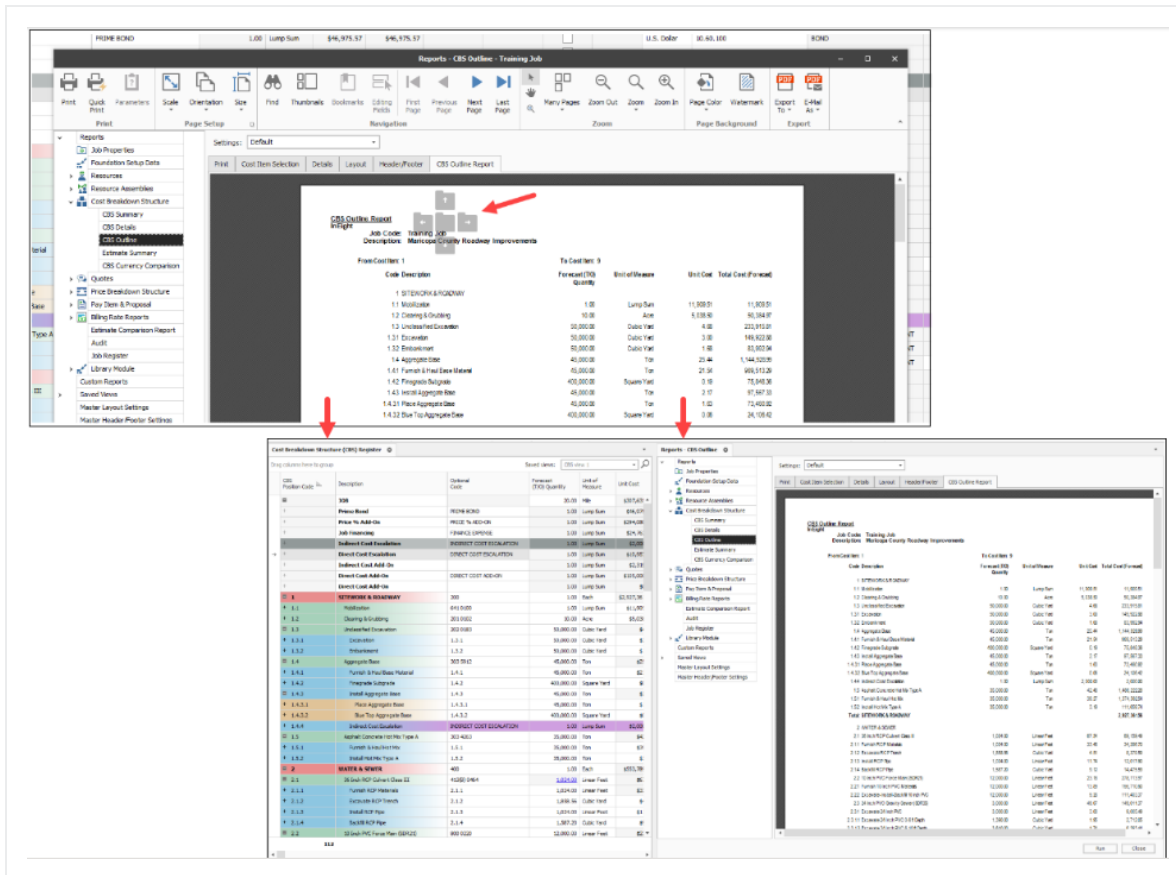
The Print tab includes three options for printing output: Print to Printer, Export to File, and Preview. Export file outputs include PDF, Excel, text, and more.

Print Preview

The Reports print previews opens in its own tab in the Report Dialog. This lets you keep the report open while continuing to use other parts of the application.

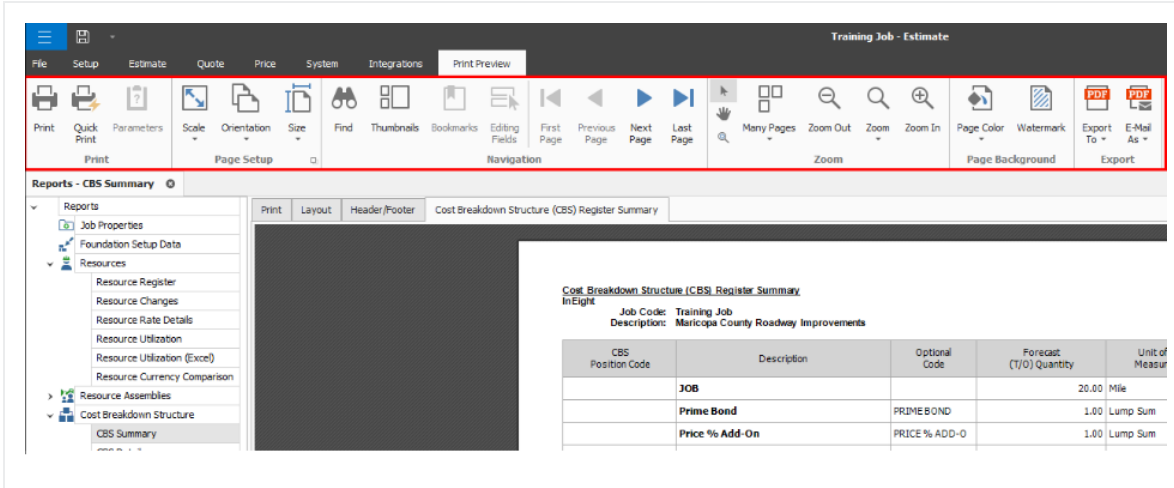


You can also undock and float a report on a different form, or you can tile it side by side with another register to view and compare them.



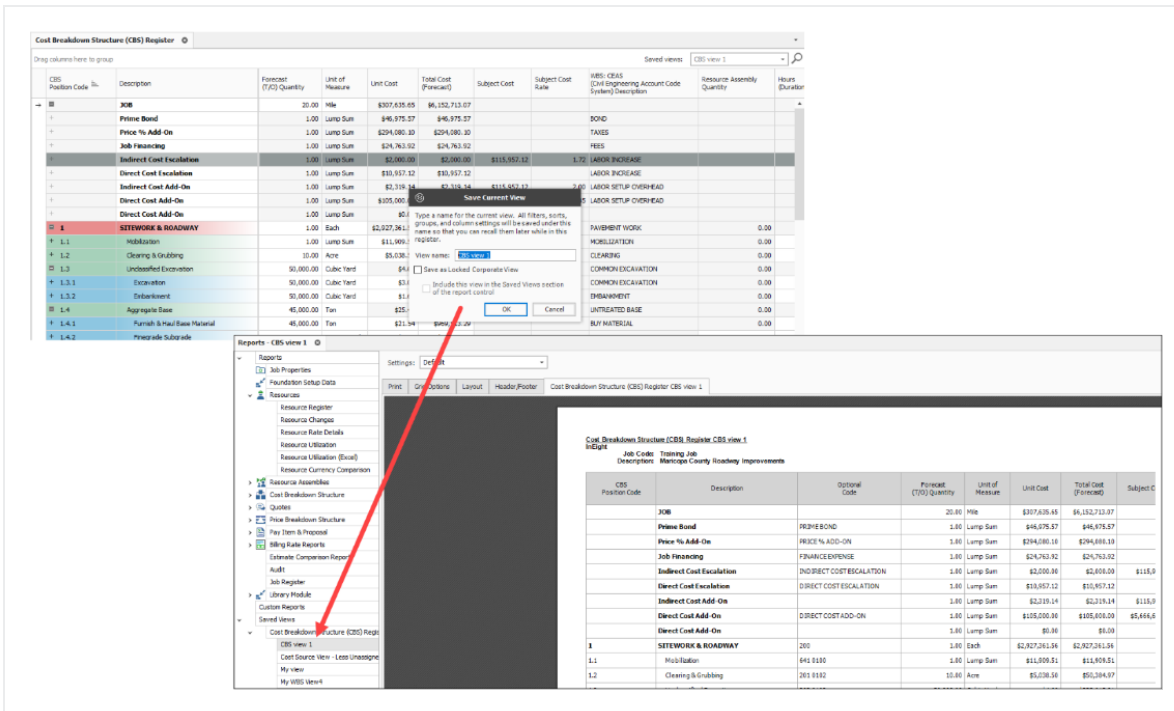
Print Preview Ribbon

The Print Preview menu is displayed on its own ribbon. Menu commands are shown in the ribbon as a contextual Print Preview menu when navigating to Reports > Print > Preview > **Run**.

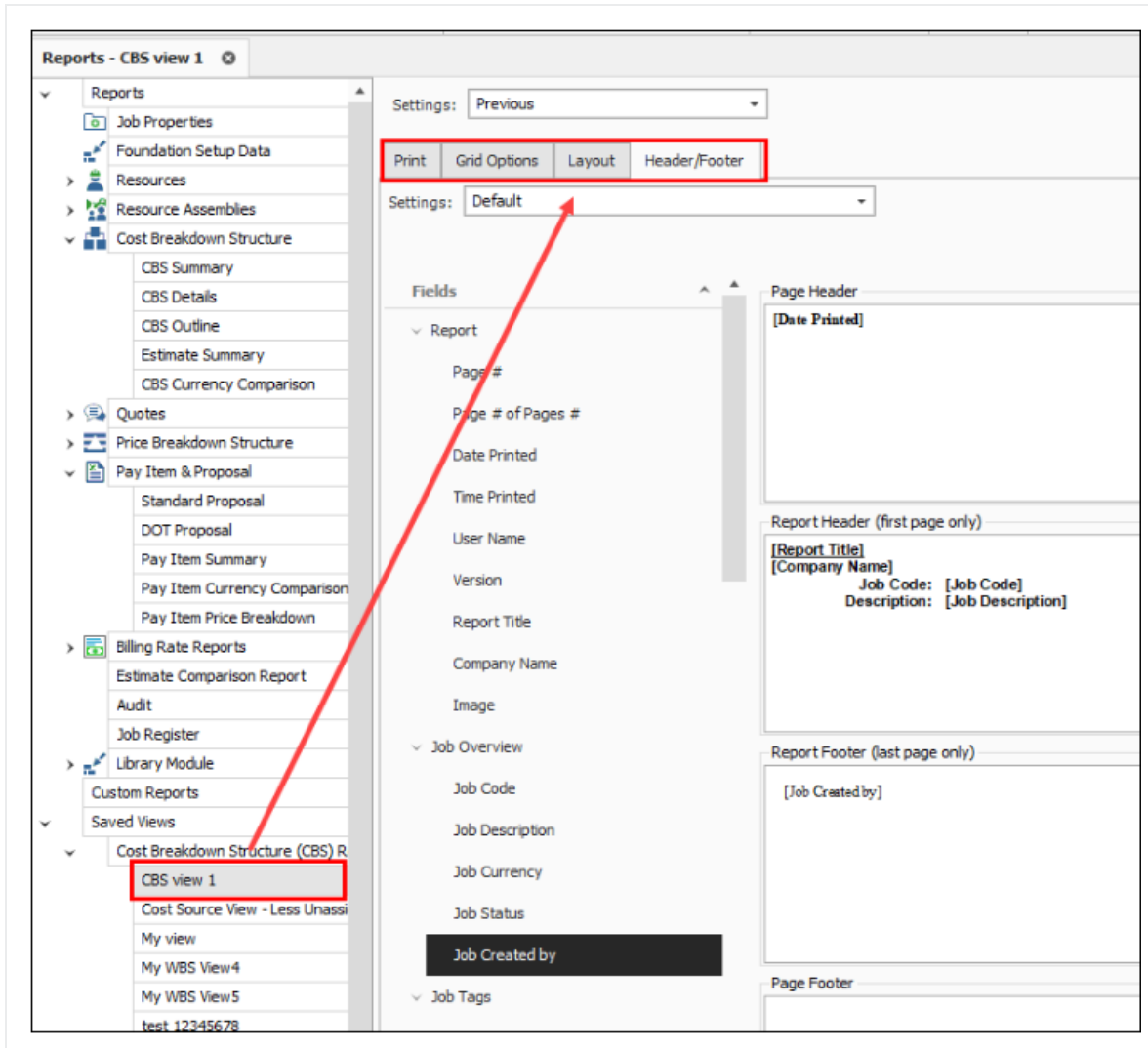


9.1.3.2 Apply custom Layouts and Headers/Footers to register reports

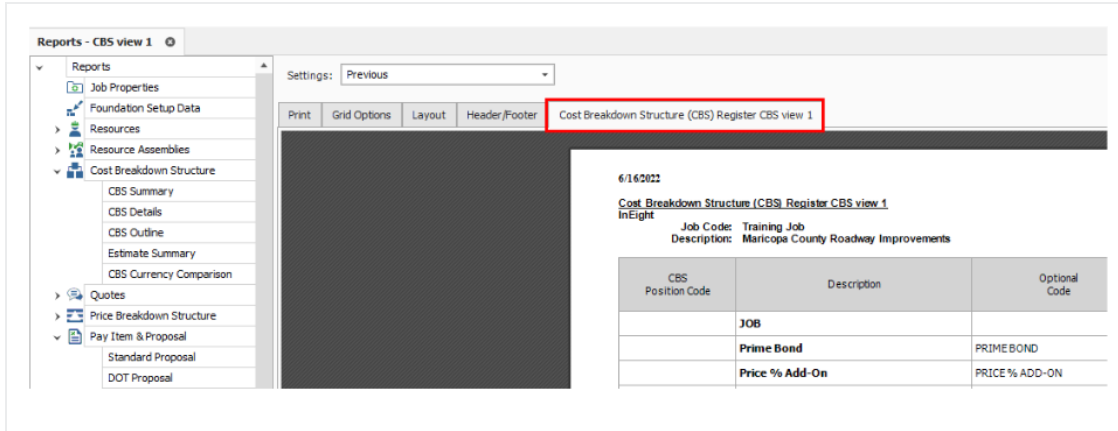
You can apply custom Layouts and header/footers to register based reports. Upon saving a view in any register, selecting the option to save it as a corporate view and include the view in the reports dialog box.



When selecting a Saved View from the Reports register you can use the Print tab to customize the printing preferences, use the Grid Options tab to change the font type/size, use the Layout tab to modify the design style, and use the Header/Footer tab to insert a header and footer to your report.



When you click on the Run button it will create a new register-style report. You can modify the layout or header/footer directly in this register. You can also toggle between any of the four other tabs to make modifications and see the changes on the saved view report.



9.1.3.3 Report Layout Settings

Many of the InEight Estimate adjustable reports include formatting options for the general layout of the report, located under the Layout tab of the report’s output settings. Settings for the report include: Orientation, Margins, Font, and Number Format.

Print Details Layout **Header/Footer**

Settings: **Default (Letter)**

Orientation

Portrait

Landscape

Paper Size: **Letter**

Margins

Top: **0.50** Header: **0.25**

Left: **0.50** Right: **0.50**

Bottom: **0.50** Footer: **0.25**

Font

Header Level 1: **Arial Narrow, 8, Bold**

Detail Level 1: **Arial Narrow, 8, Regular**

Header Level 2: **Arial Narrow, 8, Bold**

Detail Level 2: **Arial Narrow, 8, Regular**

Number Format

	Decimal Precision	Significant Figures
Cost summary:	2	<input type="checkbox"/> 1
Unit cost:	2	<input type="checkbox"/> 1
Quantity:	2	<input type="checkbox"/> 1
Percent:	2	<input type="checkbox"/> 1

Use thousands separator

Use currency symbol

Show zero values as blank

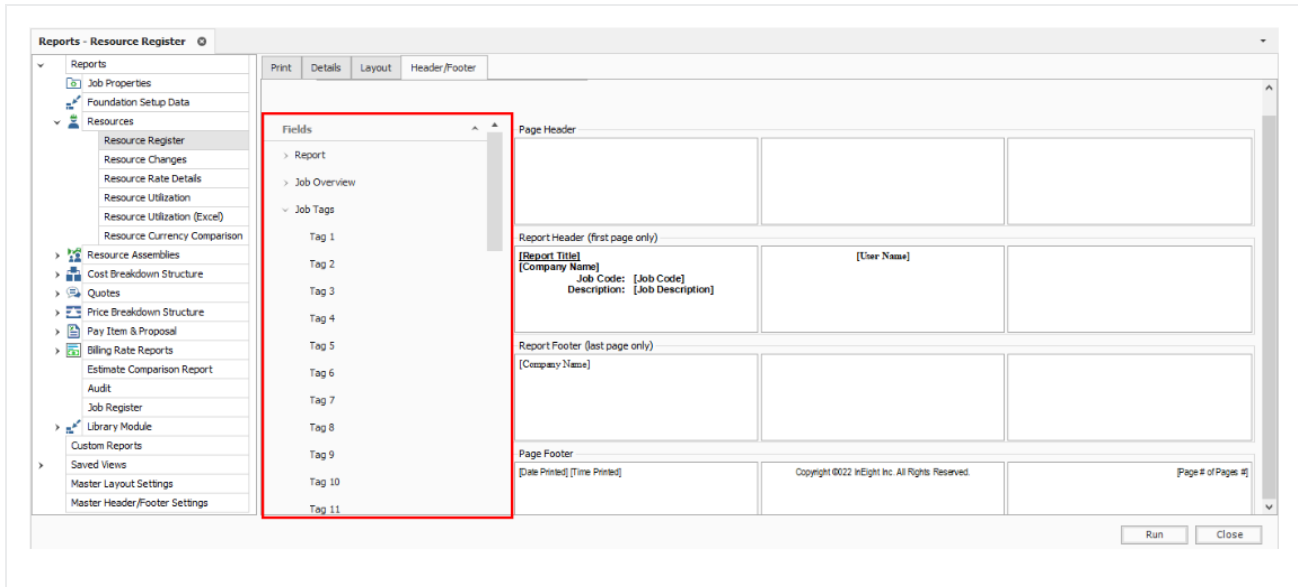
Currency: **As-Entered**

9.1.3.4 Report Header/Footer Settings

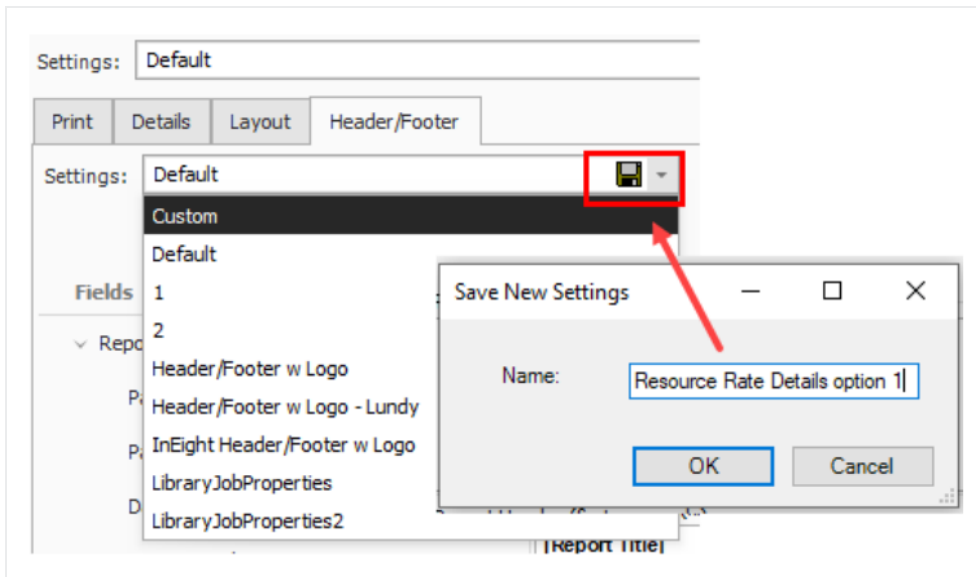
Many of the InEight Estimate adjustable reports include the option to define and insert headers and footers into the report. You can add information to the left, middle, or right of the header and footer sections of the report.

1. Once you define headers and footers, you can save them for use on other reports.
2. You can add page, time, and date stamps as needed, as well as images (e.g., company logo).
3. You can also use brackets to have it “stamp” the report with the Job Code and Job Description.

A Header and Footer field menu exists to the left of the Page Header and Page Footer grid, for all standard reports. This lets you choose which fields from Job Folder Tags and the Cover sheet to include in your report.



You can customize your header and footer layout settings, save them, and re-use them in other reports.



9.1.3.5 Report Detail Settings

Most reports have a Details tab with various options to configure what information is included on the report.

Settings: Default

Print Details Layout Header/Footer

Show the below Pay item details

- Line Number
- Pay Item Number
- Position Code
- Subtotals
- Running Totals
- Suspended Items

Filter by currency: No Filter

Show the below Proposal header items

- Job Code
- Job Description
- Bid Date
- Bid Time
- Job Location
- Job City
- Job County
- Job State
- Job Country

Include Additional Proposal pages

- Cover Sheet
- Preferences Sheet

Unit Price precision

- Truncate values based on decimal precision
- Do not truncate values (show decimal precision)

Term for Document

- Proposal/Bid
- Tender
- Custom

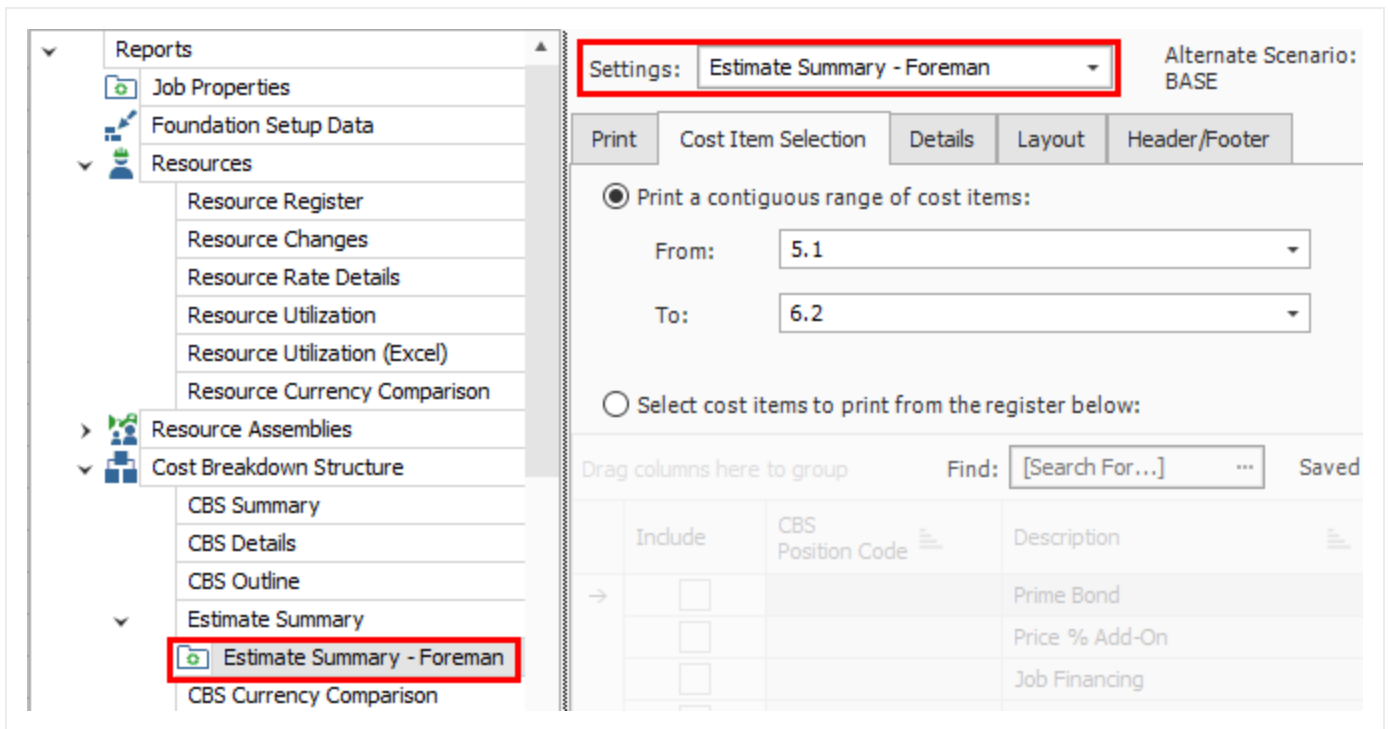
Certification Text: None Custom

Signature Block:

- Submitted By
- Include Signature Line
- Include Title Line
- Include Date Line

9.1.3.6 Save Output Settings

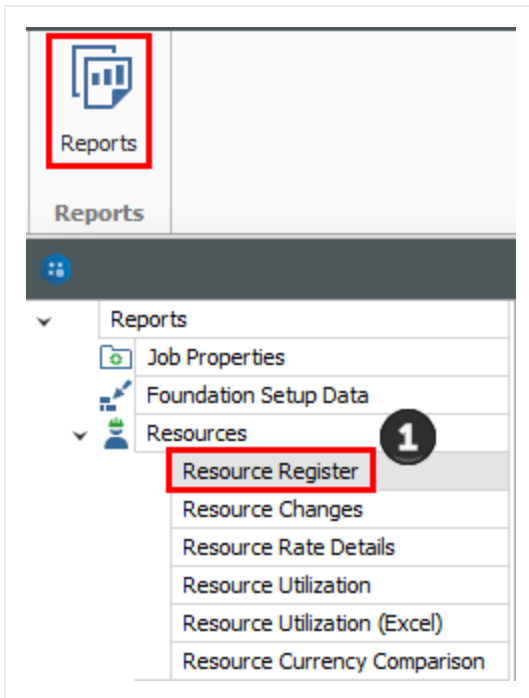
Once you've configured your settings for the report, you can save them as a custom version of that report.



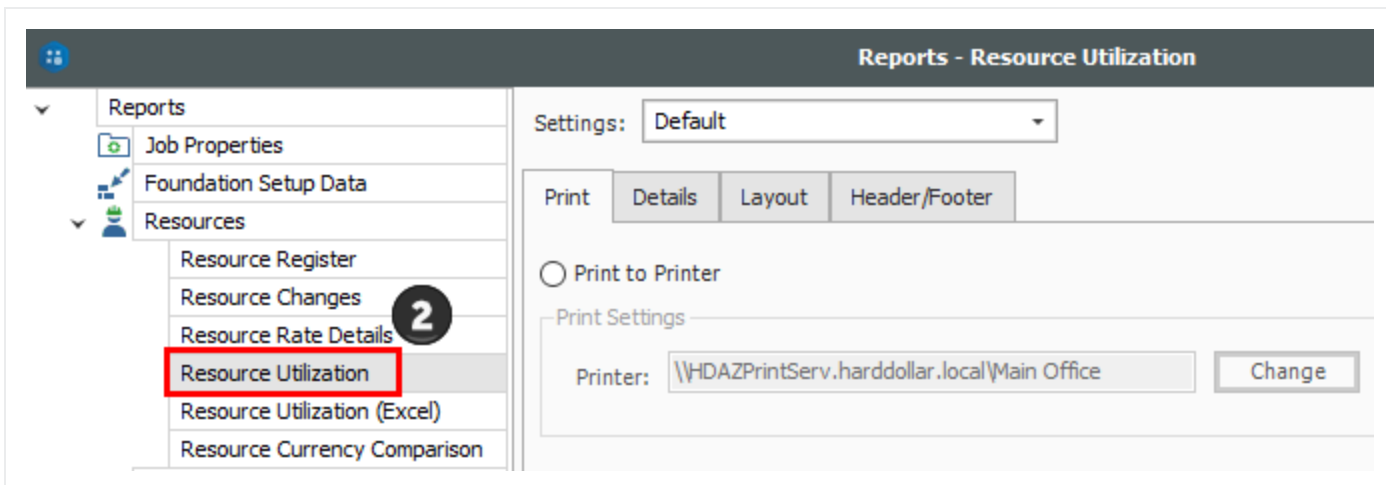
The following steps walk you through configuring the settings and formatting for two different reports.

Step by Step — Configure Report Output Settings (Report 1)

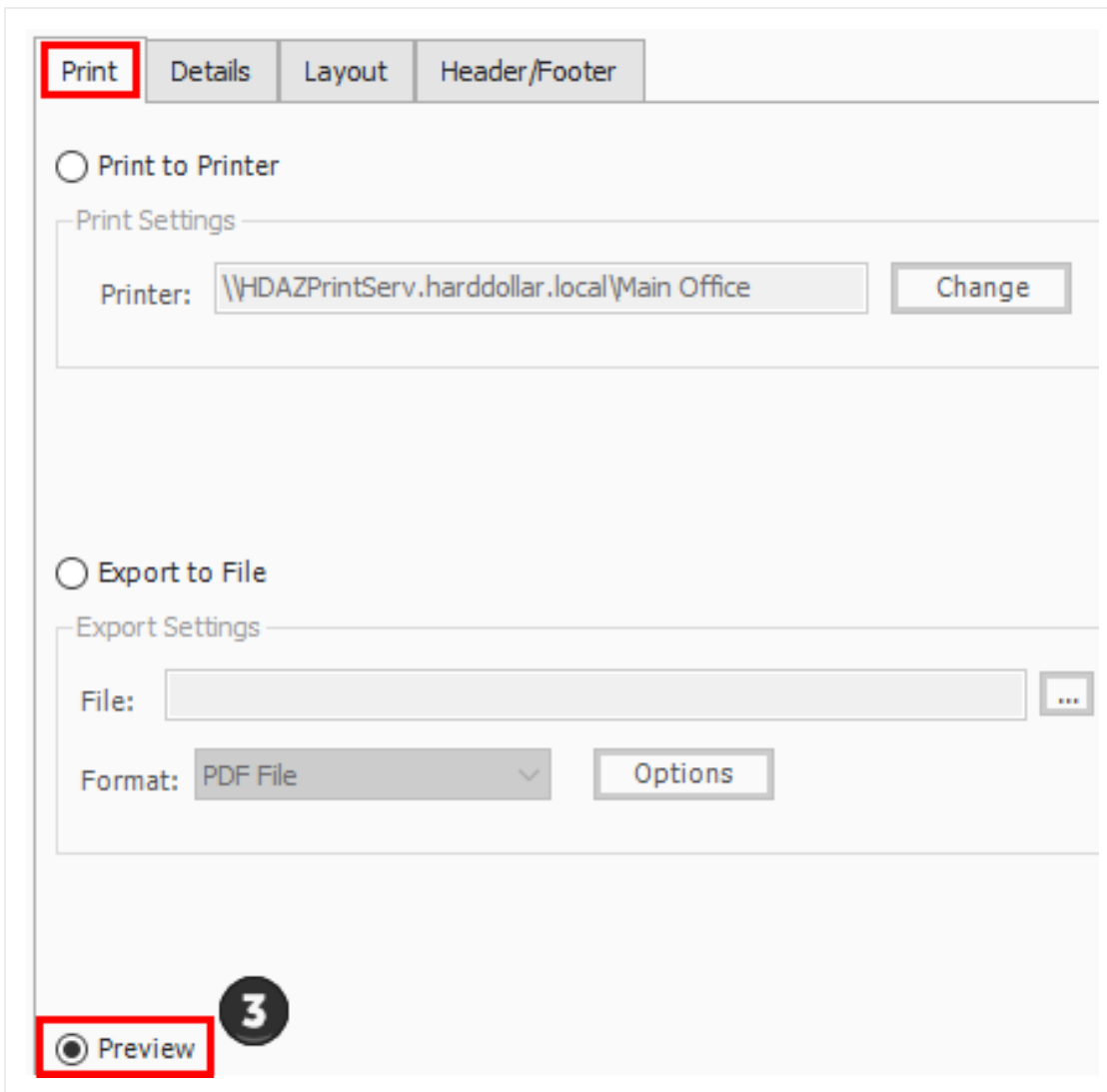
1. Open the **Training Job** and select **Setup >Report>Resources**.



2. Under Resources on the left side bar, select **Resource Utilization**.



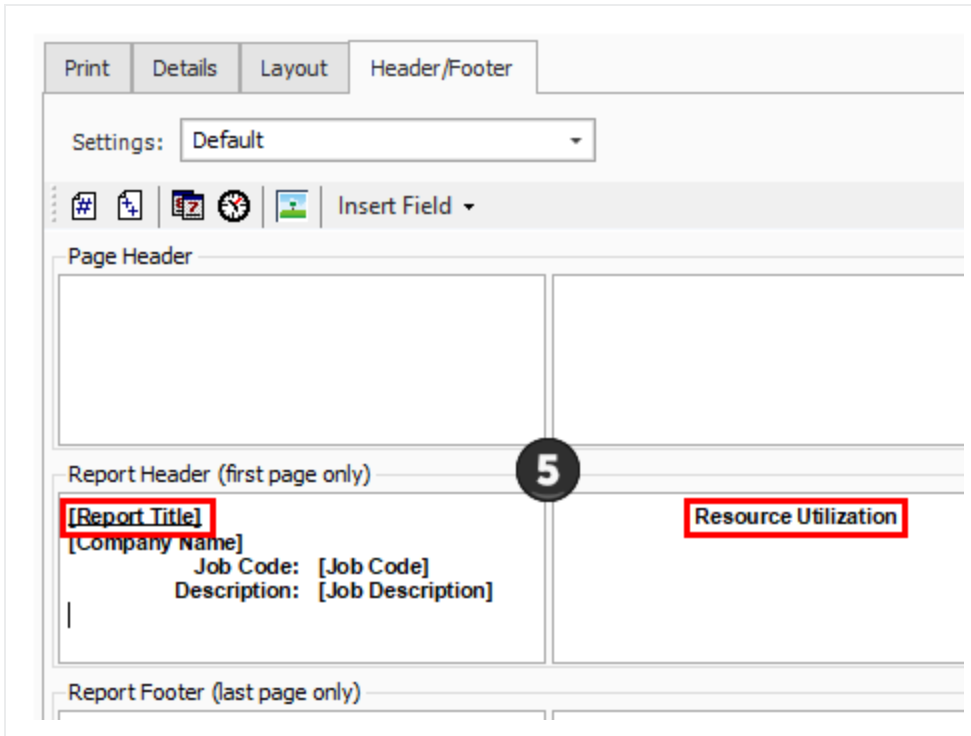
- 3. On the Print tab there are three options. A best practice is to always set to **Preview** so you can review before printing.



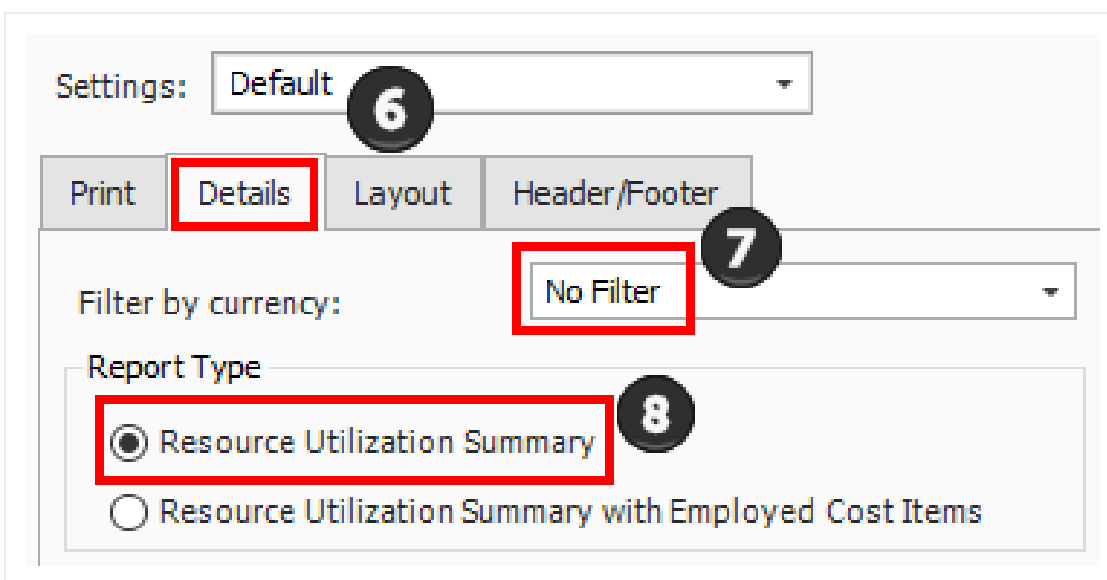
- 4. On the Layout tab you can make adjustments based on your preferences.

The screenshot shows the 'Layout' configuration window. At the top, there are tabs for 'Print', 'Details', 'Layout' (highlighted with a red box and a circled '4'), and 'Header/Footer'. Below the tabs, the 'Settings' dropdown is set to 'Default (Letter, Landscape)'. The 'Orientation' section has 'Portrait' and 'Landscape' (selected) radio buttons. The 'Paper Size' dropdown is set to 'Letter'. The 'Margins' section shows a central diagram of a page with four margin settings: Top (0.50), Header (0.25), Left (0.50), and Right (0.50). The Bottom margin is 0.50 and the Footer margin is 0.25. The 'Font' section lists four levels: Header Level 1 (Arial Narrow, 8, Bold), Detail Level 1 (Arial Narrow, 8, Regular), Header Level 2 (Arial Narrow, 8, Bold), and Detail Level 2 (Arial Narrow, 8, Regular). The 'Number Format' section includes input fields for 'Decimal Precision' and 'Significant Figures' for 'Cost summary', 'Unit cost', 'Quantity', and 'Percent', all set to 2. There are checkboxes for 'Use thousands separator' (checked), 'Use currency symbol', and 'Show zero values as blank'. The 'Currency' dropdown is set to 'As-Entered'.

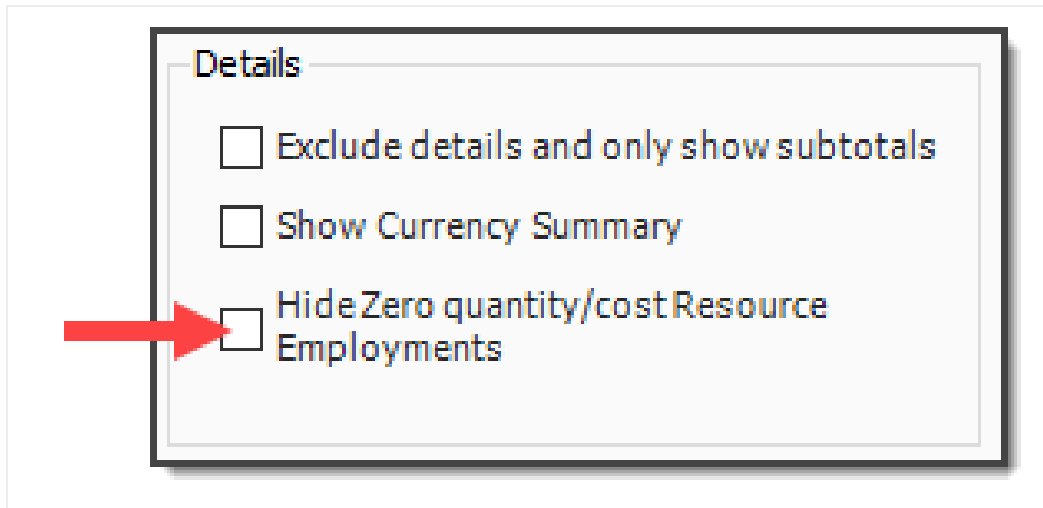
5. Move to the Header / Footer tab. Remove the default **Report Title** from the first page Header only and enter **Resource Utilization** in the center Report Header box as a title that will appear on the first page only.



6. Go to the **Details** tab, and you can see the details and options you can select to customize and adjust the report.
7. For this navigation, you will not Filter by currency; leave the selection as **No Filter**.
8. Under Report Type, choose the first option, **Resource Utilization Summary**.



- You can choose to select the Hide Zero quantity/cost Resources Employments Details box if you prefer to have your printed report not show any resources that have a dollar value of zero

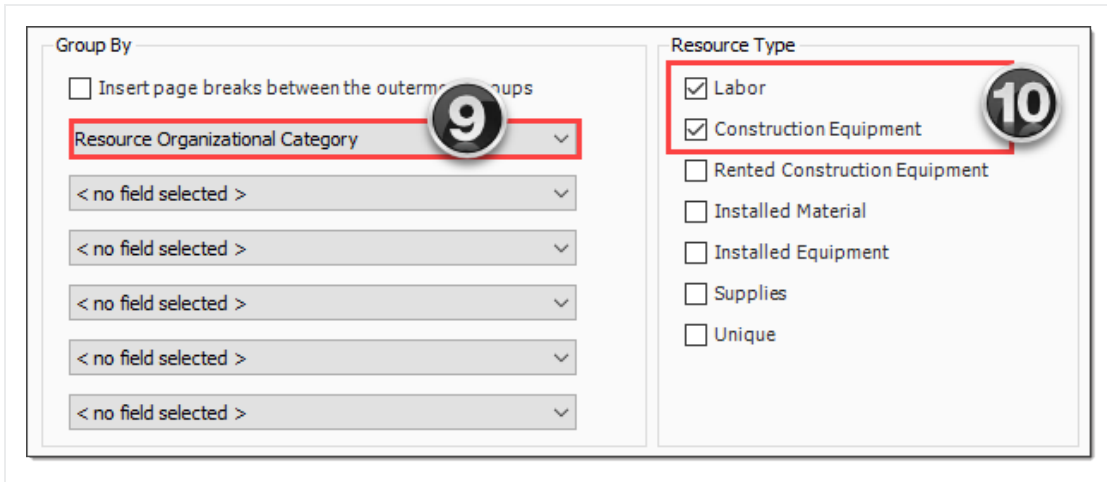


- You can choose if you want the report at a summary level, or if you want it to reference your cost items when you are looking at a resource
- If you choose Resource Utilization Summary with Employed Cost Items, it adds CBS position to the structure of the report
- You would select this if you wanted to see cost items and resources by the cost item

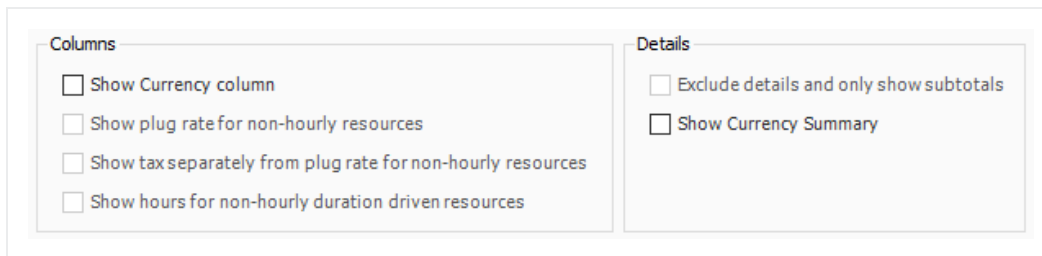
TIP

The Details settings are “sticky” features, meaning they default to what was selected the last time.

9. You can use grouping to group by different tags and user-defined fields. Most of them are related to the Resource Rate Register, for example: Geographic Area, Organizational Category, Wage Zone, etc. For this example, group by **Resource Organizational Category**.
10. Next, you can choose the resources you want to see. For this example, select the **Labor** and **Construction Equipment** Resource Types.



- For this example, you will not make any selections under Columns or Details



- This is just one of many ways to organize and adjust your report.

11. Click **Run** to run the report.

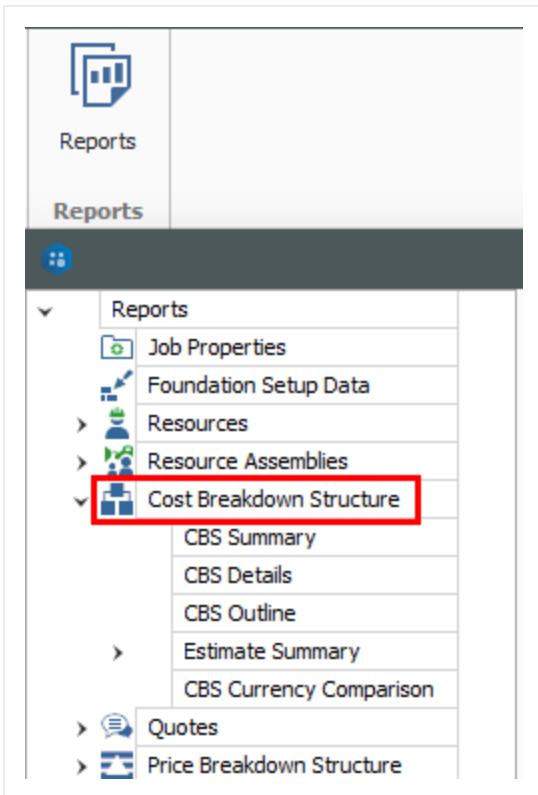
- This report can be helpful for seeing your utilization hours, broken down by regular time and overtime hours

12. Click the red **X** to close this page and open the Construction Equipment page.

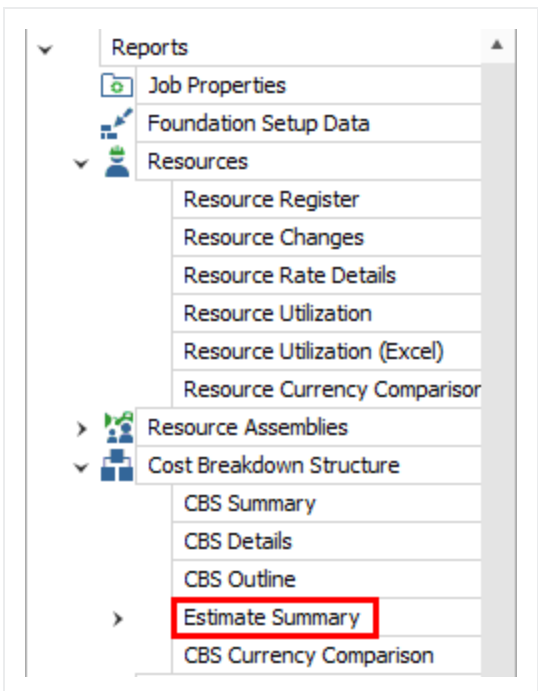
13. Click the red **X** to close the Construction Equipment report.

Step by Step — Configure Report Output Settings (Report 2)

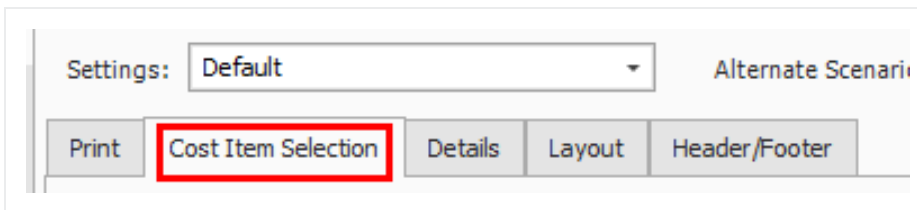
1. Open the **Training Job** and select **Setup >Reports**, then expand the **Cost Breakdown Structure** node.



2. Under Cost Breakdown Structure on the left side bar, select **Estimate Summary**.



3. Along with the Print, Details, Layout, and Header / Footer tabs, there is an additional tab called **Cost Item Selection**. Select this tab.



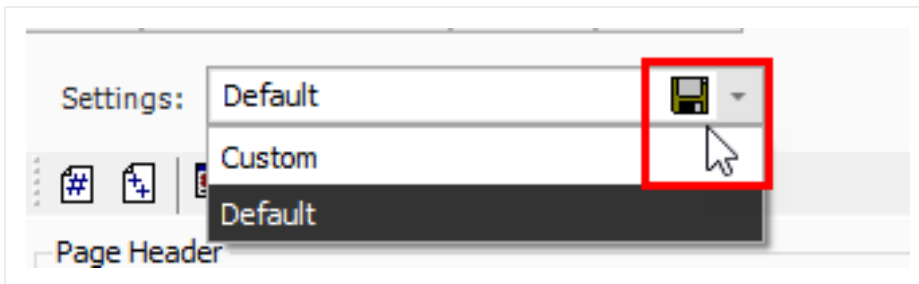
4. The Cost Item Selection tab allows you to report on a selection of cost items:
 - Print a contiguous range of cost items: Allows you to print a series of cost items in a row. In this case, print just items: select 4.1 in the From field and 4.3.2 in the To field.
 - Select cost items to print from the register below: Allows you to use column filters to select the cost items to include in the report; leave this button unselected.
5. You can roll up your cost items to a certain CBS level for the report as well, depending on the level of detail you need.
6. On the **Details** tab, select **Days** for Cost item production field 1, and **Man-Hours / UM** for Cost item production field 2 (this report allows you to report on two production values).
7. Under **Resource Types**, uncheck all of the boxes except **Labor**, **ConstructionEquipment**, and **Installed Material**.

8. Leave the rest of the settings at their defaults, then select the **Header / Footer** tab.
9. In the center **Page Footer** field delete the existing text, then type **Confidential –Internal Use Only**.

10. To save the settings you’ve configured, click on the **Settings** drop-down arrow above the output setting tabs.

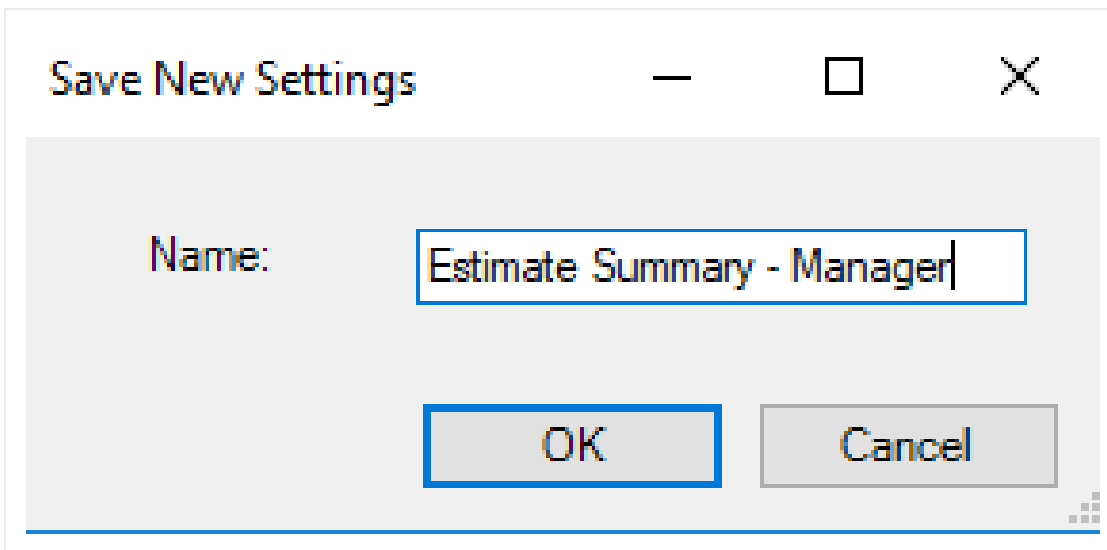


11. Select the **Save disk**  icon to save the new settings.

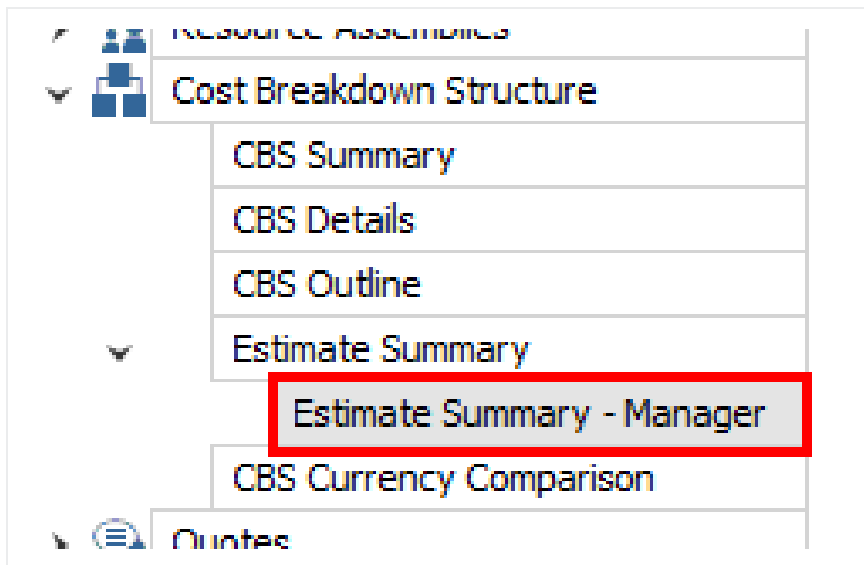


12. Type **Estimate Summary – Manager**.

13. Click **OK**.



- Notice that a custom version of the report now displays under Estimate Summary on the Reports tree on the left



9.1.4 Helpful Reports

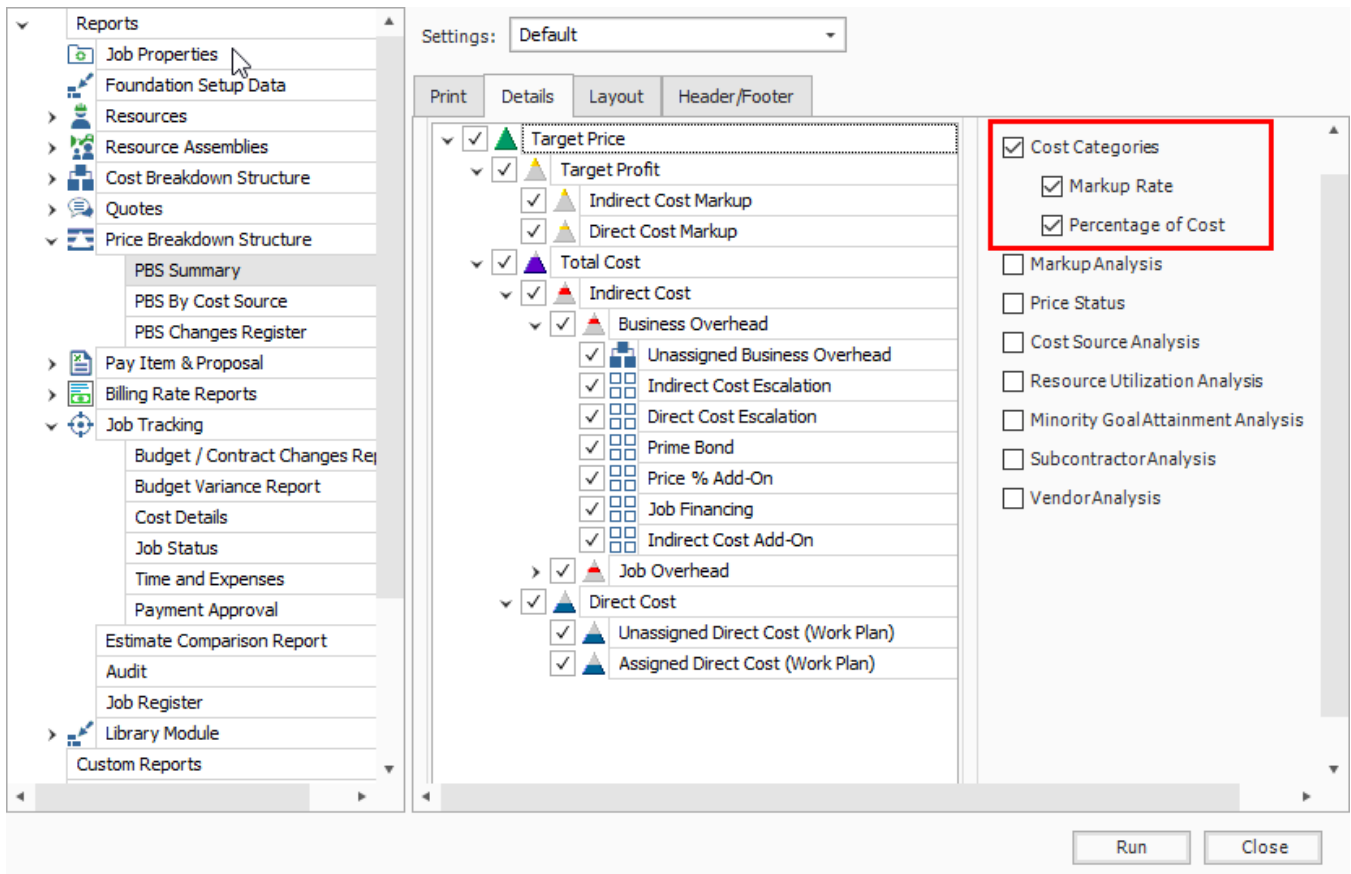
9.1.4.7 PBS Summary

Under the Price Breakdown Structure Report node, the PBS Summary Report gives a good overview of how your price breaks down by cost category. This provides a high-level overview that is cost category driven, providing information based on the total value of the project.

When selecting your settings on the Details tab, a best practice is to select and include:

- Cost Categories
- Markup Rate
- Percentage of Cost

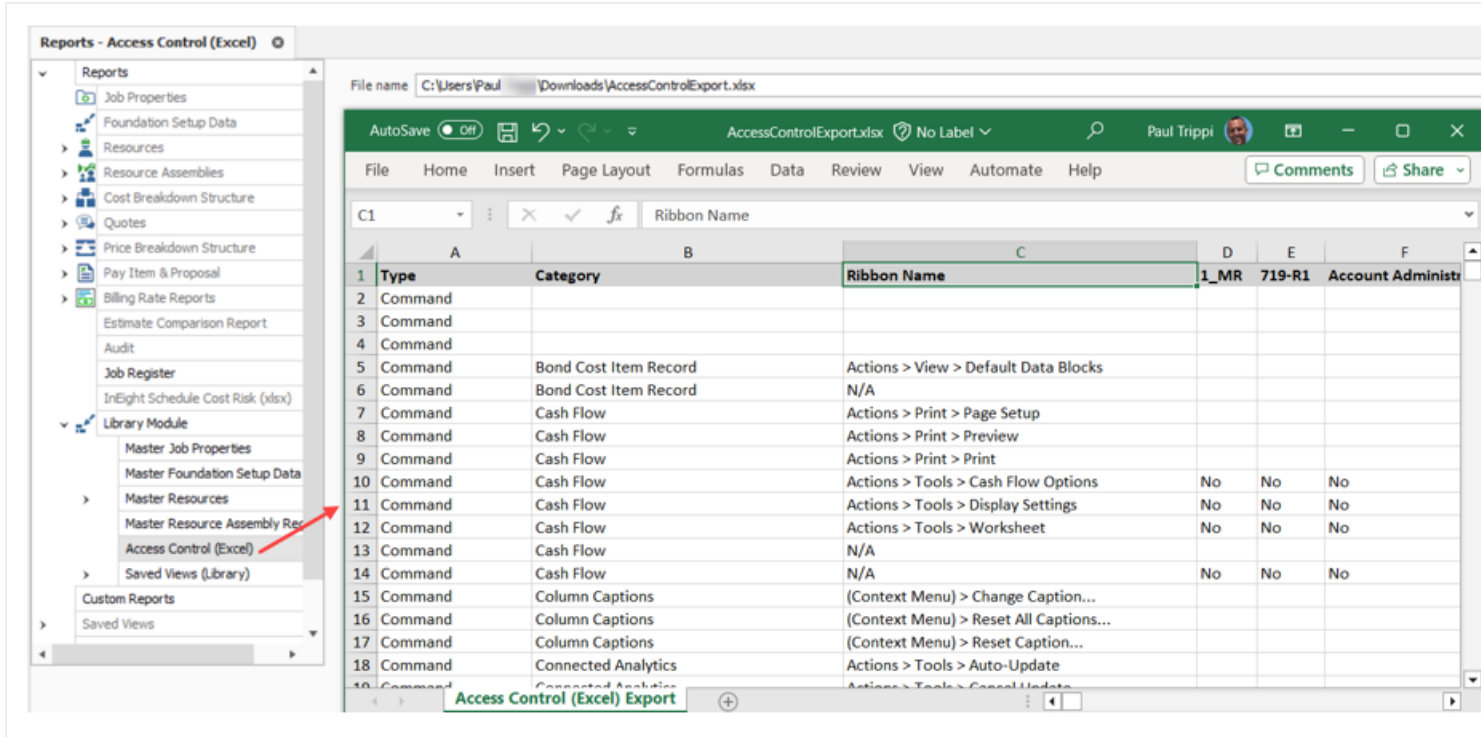
This allows you to see your costs and markup broken out by cost category.



TIP You can also select to show markup rate and what percentage the markup is of your cost.

9.1.5 Access Control

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.



9.1.6 Standard Proposal

Located under the Pay Item & Proposal report node, the Standard Proposal report can be used for contractors required to submit a pricing proposal to a client. It lists all the pay items with the client provided quantities and your final pricing. You can include subtotals (defined on the Pay Item & Proposal Register), cover sheet information, and a signature block.

Proposal
ACME Company
Job Code: Training Job
Description: Training Job - Maricopa County No. TM2924

Position Code	Line No.	Pay Item No.	Description Subtotal Description	Proposal	Quantity	Unit of Measure	Unit Price	Total Price
1	22	200	SITWORK & ROADWAY					3,402,700.00
1.1	10	641 0100	Mobilization		1.00	Lump Sum	395,600	395,600.00
1.2	20	201 0102	Clearing & Grubbing		10.00	Acre	5,900.00	59,000.00
1.3	30	202 0183	Unclassified Excavation		50,000.00	Cubic Yard	5.50	275,000.00
1.4	40	303 5912	Aggregate Base		40,000.00	Ton	26.50	1,060,000.00
1.5	50	303 4263	Asphalt Concrete Hot Mix Type A		38,000.00	Ton	42.45	1,613,100.00
2	18	400	WATER & SEWER					718,550.00
2.1	50	413(B) 0464	36 Inch RCP Culvert Class III		1,000.00	Linear Feet	97.45	97,450.00
2.2	70	800 0220	10 Inch PVC Force Main (SDR21)		12,000.00	Linear Feet	29.50	354,000.00
2.3	90	800 0330	24 Inch PVC Gravity Sewer (SDR35)		3,000.00	Linear Feet	64.50	193,500.00
2.4	90	800 0400	4 Foot Diameter Manhole		16.00	Each	4,600.00	73,600.00

9.1.7 CBS Details

Under the Cost Breakdown Structure report node, the CBS Details report can be a helpful report for bid review. On the Details tab you can include or not include any of the information contained in the CBS Register, including cost items with production, costs by category, shift arrangements, resources, and notes.

Cost Breakdown Structure Details
INEIGHT - PAUL TRIPP
Job Code: Training Job
Description: Training Job - Maricopa County No. TM2924

From Cost Item: 1 To Cost Item: 0.10

CBS Position Code	CI Description	Cost Item		Unit Cost	Total Cost	Unit and Total Costs by Category					
		Cost Source	Forecast (T/O) Quantity UMI			Labor	Owned Equipment	Rented Equipment	Materials	Supplies	Subcontract
1	Mobilization	Detail	1.00 Lump Sum	11,509.51	11,509.51	2,449.51	8,960.00	0.00	0.00	0.00	0.00
Note: There are 10 loads. Figure Mbb in only. The next job will pick up the Mbb out. Added \$500 Contingency Allowance in case extra permits are required											
Pay Item Assignment: 641 0100 (Mobilization)											
Default Properties: Account Code 1020 Cost Curve Linear Tag 1 Estimator 1 Tag 2 Roadway Tag 3 Tag 4 Tag 5											
Optional Code 641 0100 Phase Code Owner's Qty 1.00 Quote Group Quantity Driver Pay Item Minority Allow 100.00% WC Override											
Default Pay Rules: Wage Scale 1 100.00 Wage Scale 2 0.00 Wage Scale 3 0.00 Resource Work Hrs 8.00 Resource Pay Hrs 8.00 Default Shift Arrangements Work Hrs/Shift 8.00 Shifts/Day 1.00 Days/Week 5.00											
Production: Duration Days 10.00 Shifts 10.00 Hours 80.00 Man-Hours 80.00 Equip-Hours 160.00 Cost / Duration Cost/Day 1,150.95 Cost/Shift 1,150.95 Cost/Hour 143.87 Cost/Man-Hr 143.87 Cost/Equip-Hr 74.43											
UMI / Duration UMI/Day 0.10 UMI/Shift 0.10 UMI/Hour 0.01 UMI/Man-Hr 0.01 UMI/Equip-Hr 0.01 Duration / UMI Days/UMI 10.00 Shifts/UMI 10.00 Hours/UMI 80.00 Man-Hrs/UMI 80.00 Equip-Hrs/UMI 160.00											
Resource Code	Description	Quantity	Pay Hours	UMI	Unit Cost	Total Cost	Unit and Total Costs by Category				
	Assembly	Cost Driver	Account Code		Tag 1	Tag 2	Tag 3	Workers Comp %			

9.1.8 Audit

Under the Job Tracking node, the Audit Report is a very important report to run during estimate review to make sure you didn't leave anything out of the estimate. It checks for a number of potential errors in the estimate, including:

- Zero Price Pay Items
- Zero-value cost items
- Pay items without Cost Items assigned
- Resources with a quantity of zero

Exercise 9.1 – Run a System Report

You can adjust InEight Estimate system reports to report on the particular information you need. Complete the following steps to configure and run the Pay Item Summary report, using the Training Job:

1. From the Reports window, expand the **Pay Item & Proposal** report node.

2. On the Reports tree, select **Pay Item Summary**.

3. On the Details tab, select a **Pay Item Range from 303 4263 – 800 0220**.

4. Choose to **Include Assigned Cost Items**.

5. Show Costs As: **Unit**.

6. Include **Profit Analysis** columns and **Include Pay Item Price** columns

7. Run the report.

You should end up with the following results

ABC Contractors
 Job Code: Training Job
 Description: Training Job - Maricopa County No. TM2924

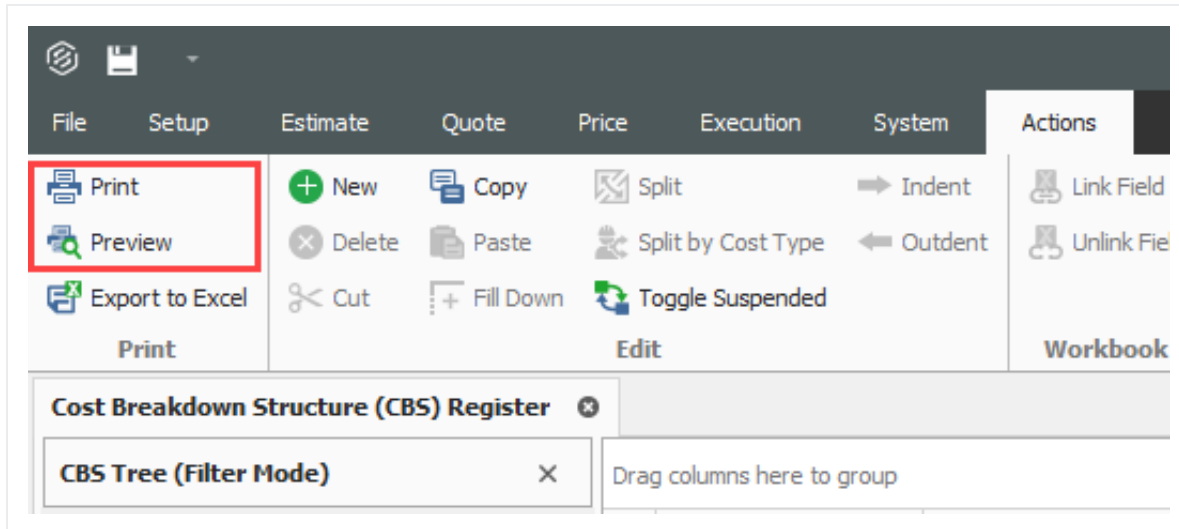
From Item: 303 4263 To Item: 800 0220

Code	Description	Quantity UM	Assigned Direct Cost	Unit Cost by Category							
				Labor	Owned Equipment	Rented Equipment	Materials	Supplies	Subcontract	Fees	Allowance
303 4263	Asphalt Concrete Hot Mix Type A	38,000.00 Ton	42.62	3.11	6.43	0.00	31.50	0.00	0.00	1.58	0.00
	5 Asphalt Concrete Hot Mix Type A	38,000.00 Ton	1,619,430.35	3.11	6.43	0.00	31.50	0.00	0.00	1.58	0.00
	5.1 Furnish & Haul Hot Mix	38,000.00 Ton	1,492,382.18	1.43	4.77	0.00	31.50	0.00	0.00	1.58	0.00
	5.2 Install Hot Mix Type A	38,000.00 Ton	127,048.17	1.68	1.66	0.00	0.00	0.00	0.00	0.00	0.00
413(B) 0464	36 Inch RCP Culvert Class III	1,000.00 Linear Feet	66.42	19.60	13.48	0.93	30.82	0.00	0.00	1.59	0.00
	6 36 Inch RCP Culvert Class III	1,000.00 Linear Feet	66,416.79	19.60	13.48	0.93	30.82	0.00	0.00	1.59	0.00
	6.1 Furnish RCP Materials	1,000.00 Linear Feet	32,361.33	0.00	0.00	0.00	30.82	0.00	0.00	1.54	0.00
	6.2 Excavate RCP Trench	1,815.00 Cubic Yard	8,163.20	4.85	3.34	0.00	0.00	0.00	0.00	0.00	0.00
	6.3 Install RCP Pipe	1,000.00 Linear Feet	11,735.94	6.45	5.29	0.00	0.00	0.00	0.00	0.00	0.00
	6.4 Backfill RCP Pipe	1,550.00 Cubic Yard	14,136.32	8.31	4.86	0.93	0.00	0.00	0.00	0.05	0.00
	SUBTOTAL: SITEWORK & ROADWAY		1,685,847.14	137,694.00	257,768.56	926.90	1,227,620.31	0.00	0.00	61,437.36	0.00
800 0220	10 Inch PVC Force Main (SDR21)	12,000.00 Linear Feet	22.51	4.56	4.72	0.00	12.60	0.00	0.00	0.63	0.00
	7 10 Inch PVC Force Main (SDR21)	12,000.00 Linear Feet	270,163.37	4.56	4.72	0.00	12.60	0.00	0.00	0.63	0.00
	7.1 Furnish 10 Inch PVC Materials	12,000.00 Linear Feet	158,760.00	0.00	0.00	0.00	12.60	0.00	0.00	0.63	0.00
	7.2 Excavate-Install-Backfill 10 Inch PVC	12,000.00 Linear Feet	111,403.37	4.56	4.72	0.00	0.00	0.00	0.00	0.00	0.00
	Extended Totals By Category		1,956,010.51	192,599.77	314,486.16	926.90	1,379,020.31	0.00	0.00	68,997.36	0.00

Congratulations, you have completed this exercise!

9.2 REGISTER REPORTS

At any time, you can print a report of the data in the currently displayed register using the Print or Preview option available from the Actions tab for the register you are in.



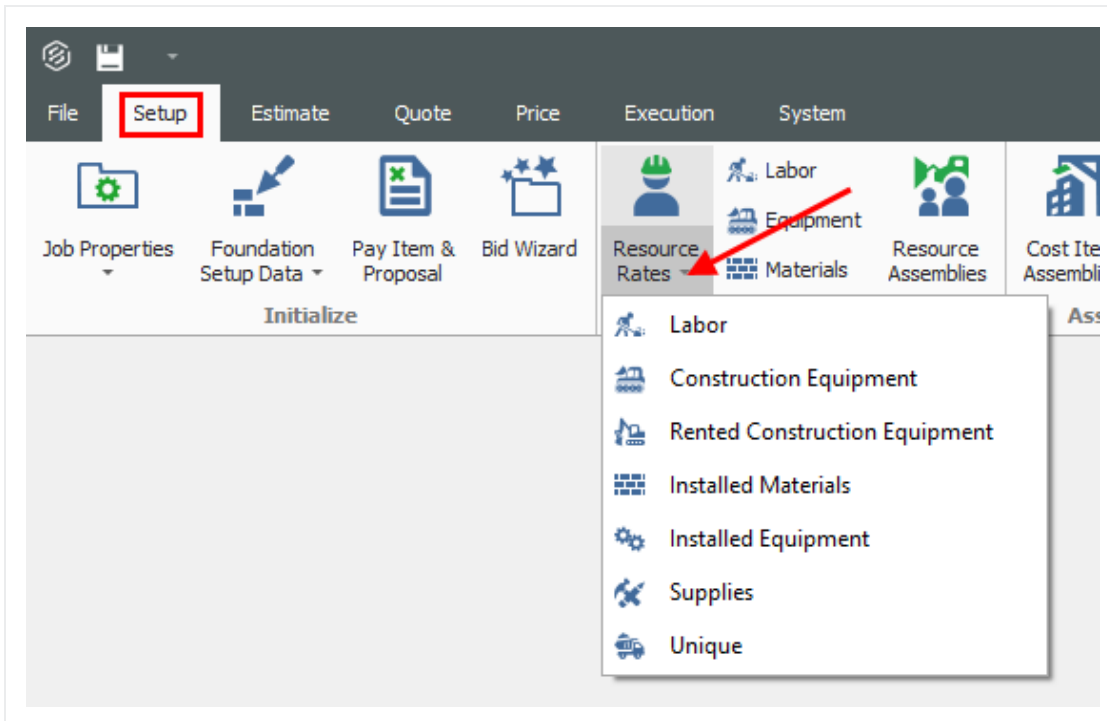
The data that prints is the data currently displayed on the register form. The report will print whatever columns are displayed on the register; if you have customized the display in the register, the report prints that data. In other words, register reports are entirely customizable.

By creating Saved Views, you can report the data on a register form in several different variations.

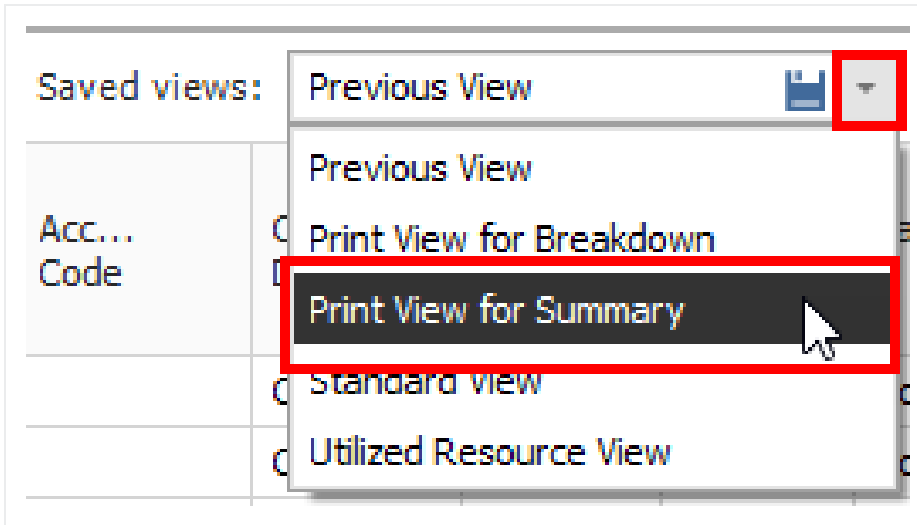
The following step by step example will walk you through creating a custom register report on resource utilization and saving it as a Saved View.

Step by Step — Create a Register Report

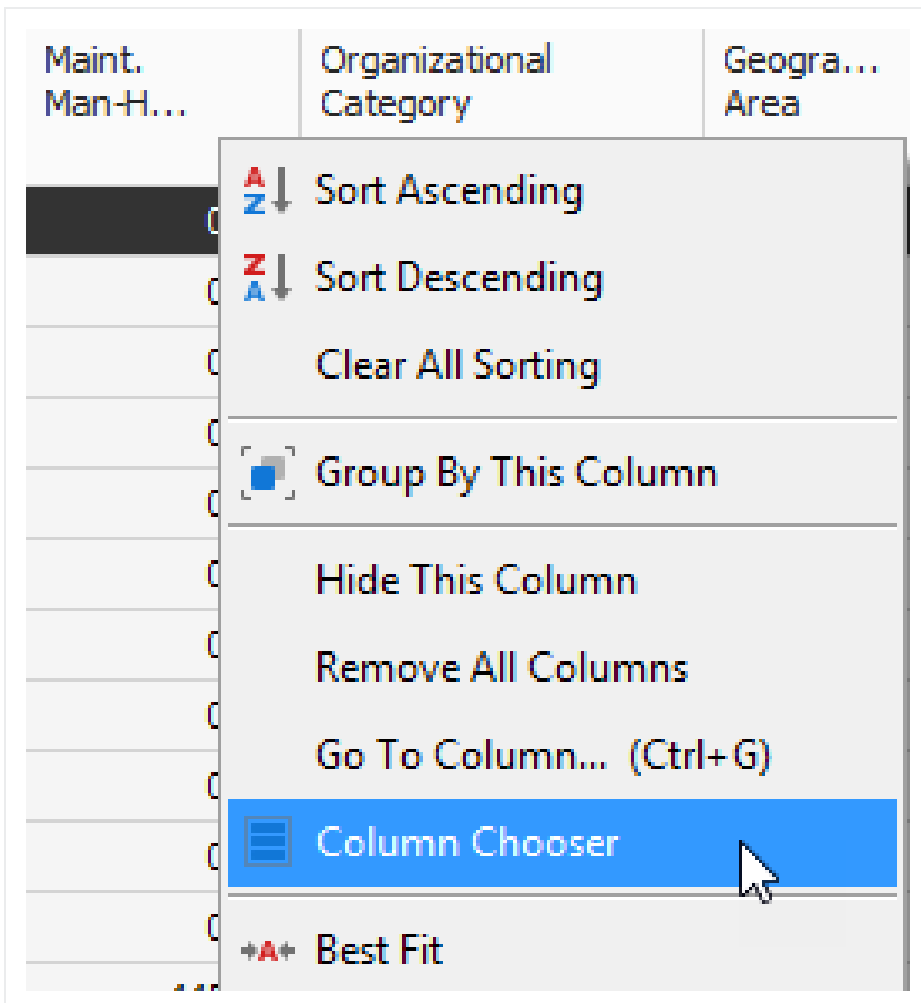
1. Open the **Training Job** and select **Setup** tab, then select the **Resource Rates** drop-down list.



2. From the drop-down list, select **Labor**.
3. From your Saved Views drop down menu on the Resource Rate Register, select the **Print View for Summary** view.




- 4. Notice this view includes utilization hours
- 5. Right-click on a column header and select **Column Chooser**.



6. From the Customization window, drag-and-drop the **Minority Percent**, **Unique Sales Tax, (Scale 2)**, and **Maint. Man-Hour Factor** columns into the register.
7. Close the Customize window.
8. Sort the **Utilization Count** column by clicking on the column header twice so that you see the bars descending.

- This sorts your items so the most utilized resources are at the top

Resource Code	Utilization Count	Maint. Man-H...	Organizational Category
+ LL2	8,946.59	0.00	Laborer
+ LO2	4,734.02	0.00	Operator
+ LT1	3,611.05	0.00	Truck Driver - Team...
+ LO1	1,640.00	0.00	Operator
+ LO4	1,484.63	0.00	Operator
+ LC2	1,188.73	0.00	Carpenter
+ LO3	889.33	0.00	Operator
+ LSSUPT	800.00	0.00	Supervision
+ LSSEC	800.00	0.00	Supervision
+ LSPE	800.00	0.00	Supervision
+ LL3	721.33	0.00	Laborer
+ LIW1	594.37	0.00	Iron Worker

9. Click on the **Saved Views** drop-down menu and select the **Save disc**  icon to save the view.
10. Name the view **Labor Utilization View**, and then click **OK** to save the customized view.
11. From the **Actions** menu, select **Preview** to review the report before printing.

Labor Register						
INEIGHT - PAUL TRIPPI						
E101 - Training Job KL--Sample Training Job						
Resource Code	Description	Utilization Count	Unit of Measure	Unique Sales Tax	Minority Percent	Maint. Man-Hour Factor
LO1	Operator Class 1	680.00	Hour	0.00	0.00	0.00
LL2	Laborer	590.00	Hour	0.00	0.00	0.00
LSSUPT	Project Superintendent	560.00	Hour	0.00	0.00	0.00
LSSEC	Secretary	560.00	Hour	0.00	0.00	0.00
LO3	Operator Class 3	220.00	Hour	0.00	0.00	0.00
LL3	Labor Foreman	200.00	Hour	0.00	0.00	0.00
LO4	Operator Foreman	110.00	Hour	0.00	0.00	0.00
LT1	Teamster	100.00	Hour	0.00	0.00	0.00

9.2.1 Register Report Output Settings

Within the Preview for a register report, there are several options to choose from to configure the output of your report.

9.2.1.1 Page Setup

While in the Preview mode, selecting **File > Page Setup** provides setup options for the page format:

- Page Size (legal, letter, etc.)
- Paper Width & Height
- Orientation (portrait or landscape)
- Page Margins (left, right, top, bottom)

9.2.1.2 Exporting to Document

Using the Export function allows you to identify a Print range, Image quality, Password Security, and more. Selecting **File > Export Document** prints an Adobe Acrobat (*.pdf) report.

Exercise 9.2 — Create a Custom Register Report

You can configure the columns in your registers for reporting and run your own custom reports. Complete the following steps to configure and run a report from the CBS Register, using the Training Job:

1. Select **Estimate>Cost Breakdown Structure (CBS)**.

2. Under Saved Views, Select **CBS Simple View**.

3. Hide the **Optional Code** column.

4. Add back in the **Man-Hours (Total)** and **Man-Hours / UM** columns.

5. Now add back in the **Labor Total Cost, Owned Equipment Total Cost, and Materials Total Cost** categories for reviewing the estimate.

6. Save the View (create your own name for the view).

7. Select **Preview** to view the report.

You should end up with the following results

Cost Breakdown Structure (CBS) Register

ABC Contracting Inc
Training Job--Training Job - Maricopa County No. TM2924

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Man-Hours (Total)	Unit Cost	Labor Total Cost	Total Cost (Forecast)	Man-Hours total Incl. Maintenance	Owned Equipment Total	Man-Hours/ UM	Materials Total Cost	Currency
	JOB	20.00	Mile	27,993.15	\$306,883.14	\$907,442.76	\$6,137,662.81	28,438.44	\$1,062,750.40		\$3,393,700.70	U.S. Dollar
	Prime Bond	1.00	Lump Sum		\$48,686.14	\$0.00	\$48,686.14		\$0.00		\$0.00	U.S. Dollar
	Price % Add-On	1.00	Lump Sum		\$309,475.27	\$0.00	\$309,475.27		\$0.00		\$0.00	U.S. Dollar
	Job Financing	1.00	Lump Sum		\$0.00	\$0.00	\$0.00		\$0.00		\$0.00	U.S. Dollar
	Indirect Cost Escalation	1.00	Lump Sum		\$0.00	\$0.00	\$0.00		\$0.00		\$0.00	U.S. Dollar
	Direct Cost Escalation	1.00	Lump Sum		\$11,026.79	\$12,026.79	\$11,026.79		\$0.00		(\$1,000.00)	U.S. Dollar
	Indirect Cost Add-On	1.00	Lump Sum		\$0.00	\$0.00	\$0.00		\$0.00		\$0.00	U.S. Dollar
	Job Management & Equipment	1.00	Lump Sum	2,400.00	\$157,096.28	\$91,176.28	\$157,096.28	2,400.00	\$65,920.00	2,400.00	\$0.00	U.S. Dollar
	General Expense	1.00	Lump Sum	0.00	\$4,200.00	\$0.00	\$4,200.00	0.00	\$0.00	0.00	\$0.00	U.S. Dollar
	Direct Cost Add-On	1.00	Lump Sum		\$109,544.08	\$15,676.56	\$109,544.08		\$19,450.89		\$66,546.70	U.S. Dollar
1	Mobilization	1.00	Lump Sum	0.00	\$75,000.00	\$50,000.00	\$75,000.00	0.00	\$0.00	0.00	\$25,000.00	U.S. Dollar
2	Clearing & Grubbing	10.00	Acre	0.00	\$0.00	\$0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	U.S. Dollar
3	Unclassified Excavation	50,000.00	Cubic Yard	3,964.29	\$9.95	\$110,467.00	\$497,466.56	4,115.48	\$302,999.56	0.08	\$0.00	U.S. Dollar
3.1	Excavation, scrapers	50,000.00	Cubic Yard	1,250.00	\$3.00	\$33,170.48	\$149,922.88	1,325.00	\$116,752.40	0.03	\$0.00	U.S. Dollar

Congratulations, you have completed this exercise!

Lesson 9 Review

1. The _____ Report gives a good overview of how your price breakdowns by cost category.
 - a. Estimate Summary
 - b. PBS Summary
 - c. Audit

2. The _____ Report is a very important report to run during bid review to make sure you didn't leave anything out of the estimate.
 - a. CBS Details
 - b. Audit
 - c. Pay Item Summary

3. A best practice is to always set your Print output setting to **Preview** so you can review before printing.
 - a. True
 - b. False

Lesson 9 Summary

As a result of this lesson, you can:

- Run reports from the Report menu
- Create and run reports from register forms

LESSON 10 – DATA REPRODUCTION

Lesson Duration: 20 Minutes

Lesson Objectives

After completing this lesson, you will be able to:

- Create a job from an existing job or template
- Create a template
- Reproduce estimate data using the Bid Wizard
- Reproduce estimate data using copy/paste
- Add cost items to a job using the CBS Bid Wizard
- Utilize the Snapshot function

Lesson Topics

10.1 COPY AN EXISTING JOB

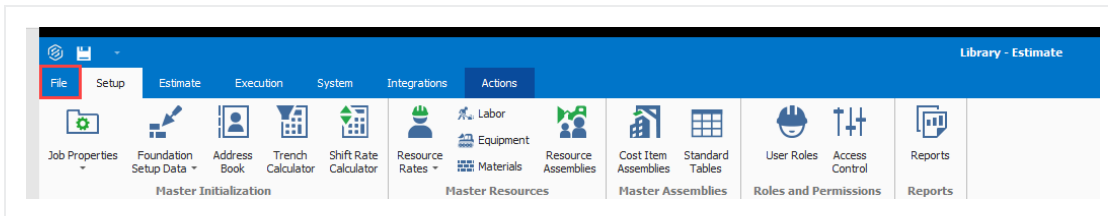
As you build an estimate, you may want to reuse pay items, cost items, or resources from a previous estimate. When you plan to reuse the majority of content within a job, you can simply make a copy of the existing job.

Using the **Create a new Job from... Existing Job** option on the Backstage View creates an exact replica of the existing job, including the job's properties, pay items, cost items, and resources.

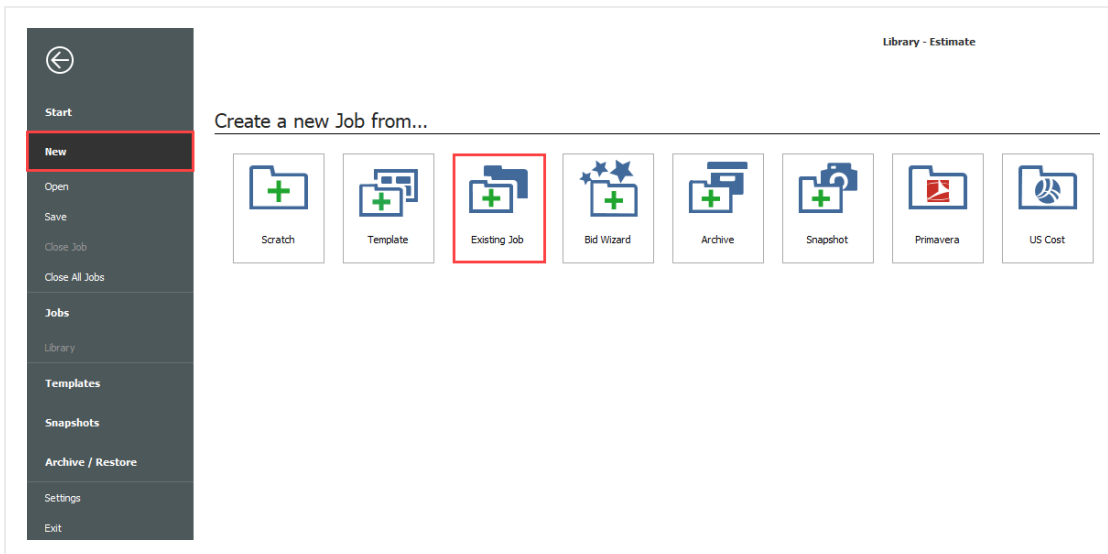
The following Step by Step walks you through how to make a copy of an existing job.

Step by Step — Copy an Existing Job

1. Click the **File** tab on the **Estimate** landing page.

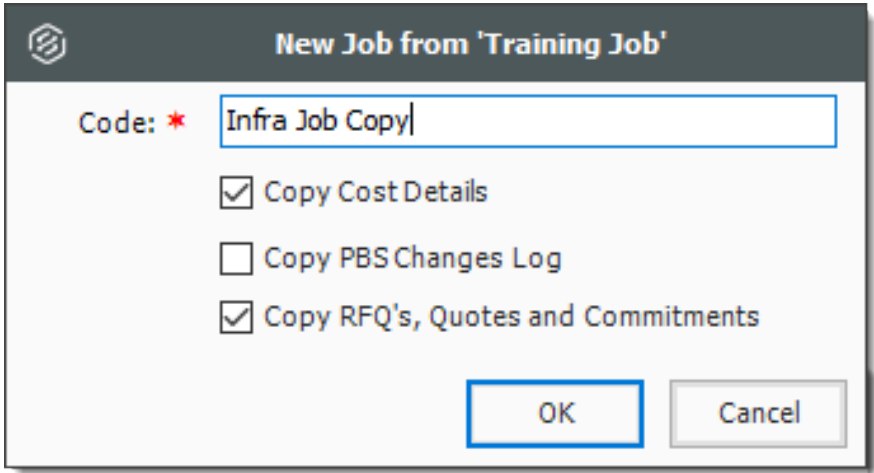


2. From the left side panel, select **New**, then select **Existing Job**.



3. The Job Register displays a list of your existing projects; select the Training Job and click **OK**.

4. On the New Job dialog, in the Code field, type **Infra Job Copy** with your initials.
5. To copy the cost details from the existing job to the new job, verify that the **Copy Cost Details** checkbox is selected
 - If you wanted to copy just the cost item structure without cost details, you would uncheck the box.
6. Uncheck the check for copying the PBS Changes Log.
7. Click **OK** to create the new job.



The screenshot shows a dialog box titled "New Job from 'Training Job'". It features a text input field for "Code: *" containing the text "Infra Job Copy". Below the input field are three checkboxes: "Copy Cost Details" (checked), "Copy PBS Changes Log" (unchecked), and "Copy RFQ's, Quotes and Commitments" (checked). At the bottom of the dialog are two buttons: "OK" and "Cancel".

The new job opens with the Job Properties form active, so you can begin to modify the new job as needed. If you look through the tabs on the Job Properties form, you will find that it looks exactly like the job from which it was copied. Other forms, such as the Pay Item & Proposal Register and the CBS Register, also look the same in both jobs until you make modifications in one job or the other.

This is a very easy method for creating a new job, and it is a good choice if you want to copy an entire job. However, if you want to pick and choose which parts of a job to duplicate, the Bid Wizard is a better choice.

10.2 TEMPLATES

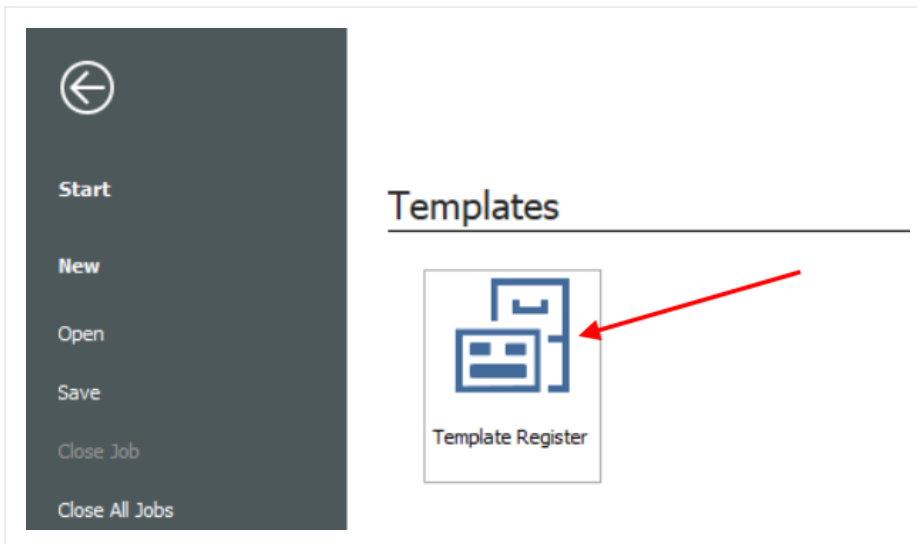
Job Templates provide you the ability to maintain a list of template jobs that can be used to create new jobs. As your company grows and increases the number of projects, the need to standardize the estimating process increases to ensure consistency and reduce the chance of information being overlooked.

In InEight Estimate you can create job folders and store them in a separate register as templates. This allows you to store cost items in master templates separate from the jobs in your Job Register.

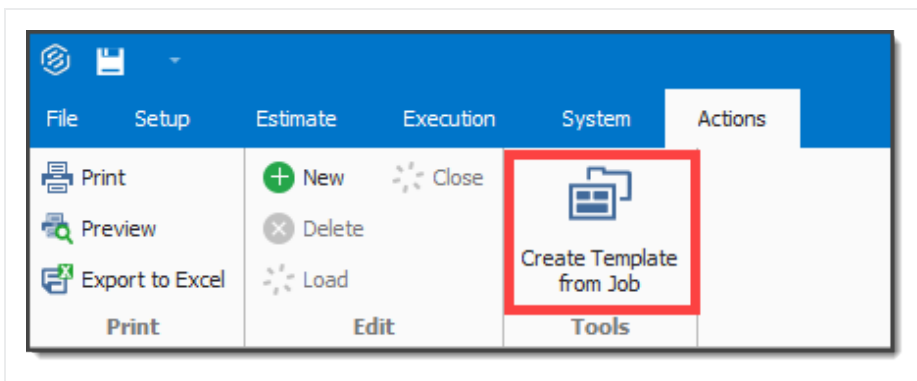
You can create templates from scratch or from existing job folders. The following steps walk you through how to create a new template from an existing job folder.

Step by Step — Create a Template

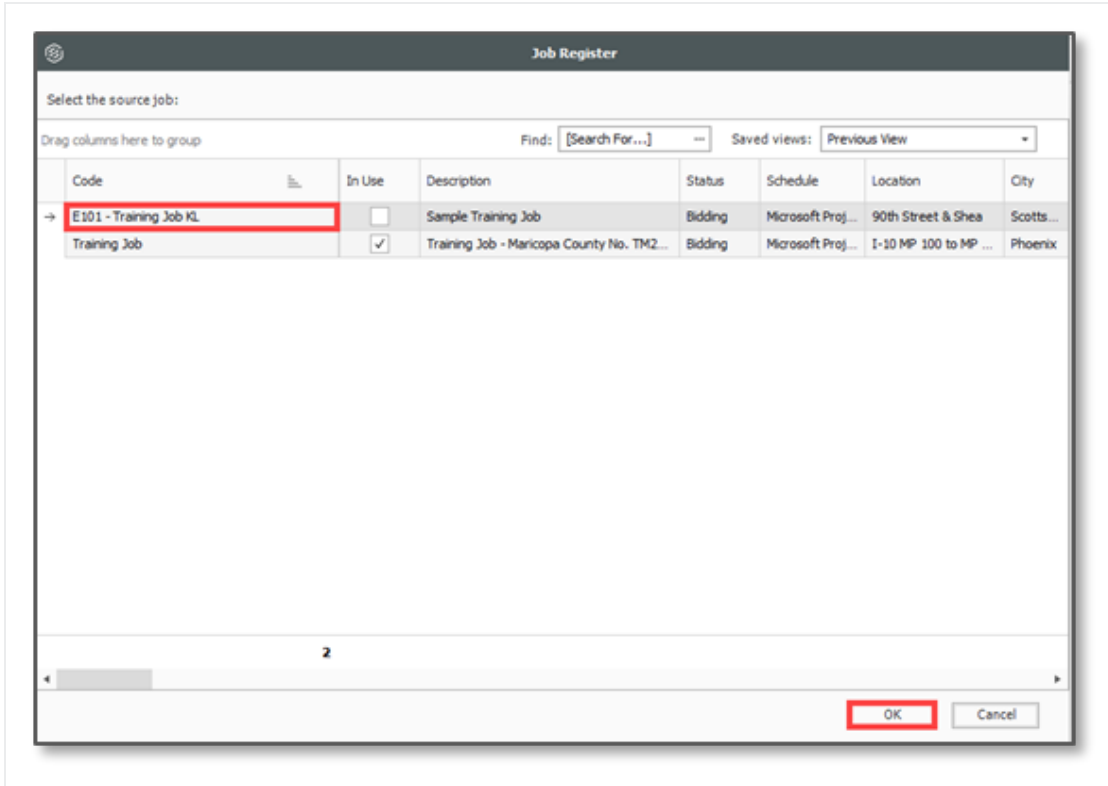
1. Click the **File** tab on the Estimate landing page.
2. From the left side panel, select **Templates**.
3. Under Templates, select the **Template Register**.



4. From the Actions tab, select **Create Template from Job**.

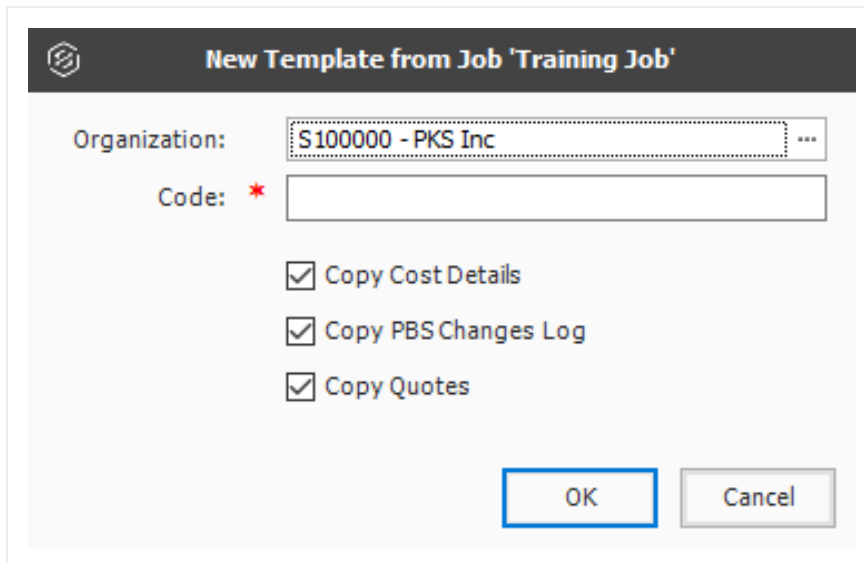


- The Job Register opens for you to select the source job for the template
 - Assume that you want to make a template from your E101 Training Job
5. Select the **E101 Training Job with your initials**, then click **OK**.



NOTE You cannot create templates from jobs that are published to Job Tracking.

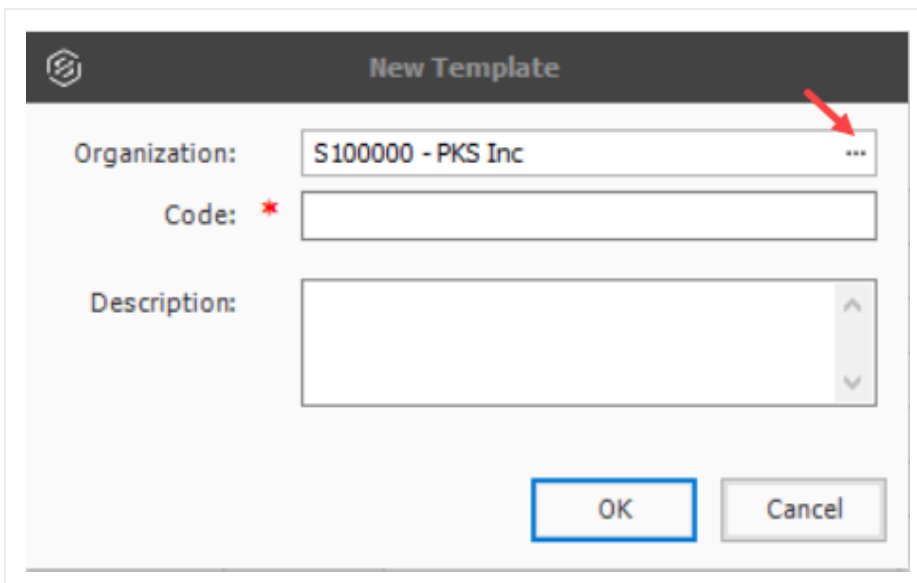
- The New Template From Job 'Training Job' with your initials prompt appears.



The screenshot shows a dialog box titled "New Template from Job 'Training Job'". It contains the following fields and options:

- Organization: S100000 - PKS Inc (with an ellipsis button to the right)
- Code: * (with a red asterisk and an empty text box)
- Copy Cost Details
- Copy PBS Changes Log
- Copy Quotes
- OK (highlighted with a blue border)
- Cancel

6. Click the ellipsis to the right of the Organization field.



The screenshot shows a dialog box titled "New Template". It contains the following fields and options:

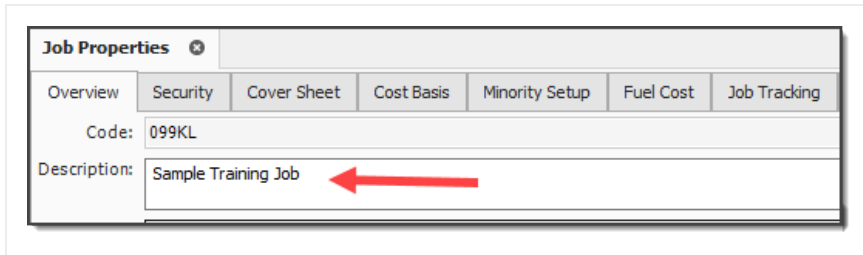
- Organization: S100000 - PKS Inc (with an ellipsis button to the right, indicated by a red arrow)
- Code: * (with a red asterisk and an empty text box)
- Description: (with an empty text box and a scroll bar)
- OK (highlighted with a blue border)
- Cancel

The Organization Register Library opens.

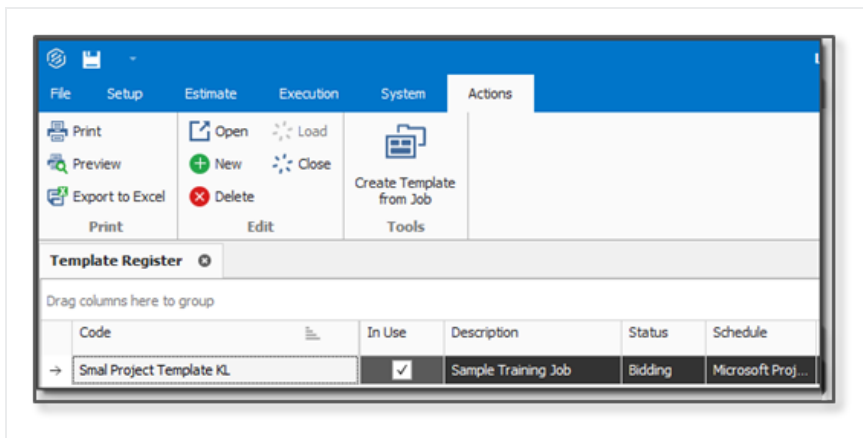
7. In the Organization Register Library, select an **organization** and then click **OK**.
8. In the Code field, type **Small Project Template[your initials]**.
 - Leave Copy Cost Details and Copy PBS Changes Log checked

9. Click **OK**.

- The new template is created and opens to the Job Properties form
- You can add the description in addition to the code for any new job you are creating from a template. This description is later added to the Overview tab of the new job on the Job Properties form



- Back in the Templates Register, you can see the new template created

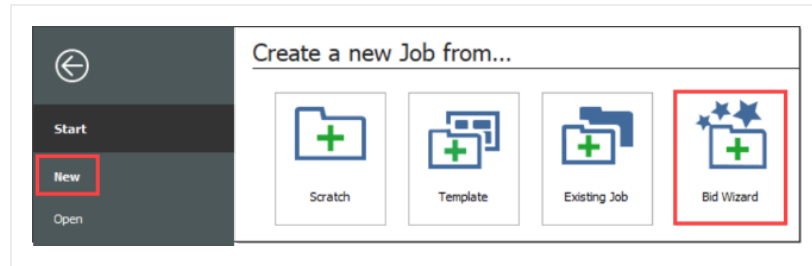


- Similar to copying an existing job, you can create a new job from a template from the New menu in the Backstage View.

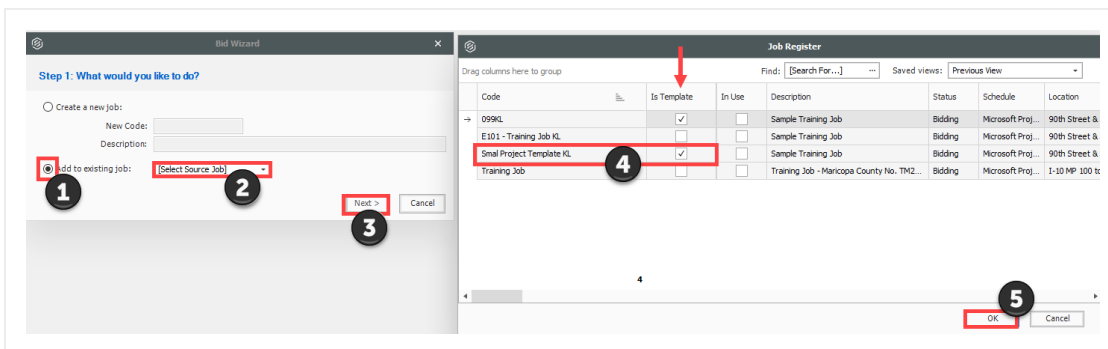


- You can also create a new job from a template from the New menu in the Bid

Wizard.



10. Select **Add to existing job**
11. From Select Source Job, click the **dropdown** arrow
12. Click **Next**
13. Select a job that is shown as having a Template
14. Click **OK**



10.2.1 Archive and Restore Templates

The templates feature gives you the ability to archive and restore templates, enabling templates to become portable. You can move templates between different environments. You can also backup the templates similarly to the Jobs Archive and Restore function.

Step by Step — Archive and Restore a Template

1. Click **File** to open the Backstage View.
2. Select **Archive / Restore**.

- Several options appear for archiving and restoring your jobs, templates, and library
3. Select **Archive Template**.
 - The Template Register appears
 4. Select the **Small Project Template [your initials]** template you previously made, then click **OK**.
 5. When prompted to include attachments, click **Yes**.
 - The Save As window appears
 6. Browse to where you want to save the job, then click **Save**.
 7. Select **Restore Template** from the Archive / Restore page of the Backstage View to begin restoring the template.
 8. Browse to the archived template and select it.
 9. Click **Open**.
 - If the template already exists, a prompt will appear asking if you want to overwrite it
 - To overwrite it, select **Yes**
 - If you select **No**, you will be prompted to save it under a new Template Code

10.3 ESTIMATE IN THE CLOUD

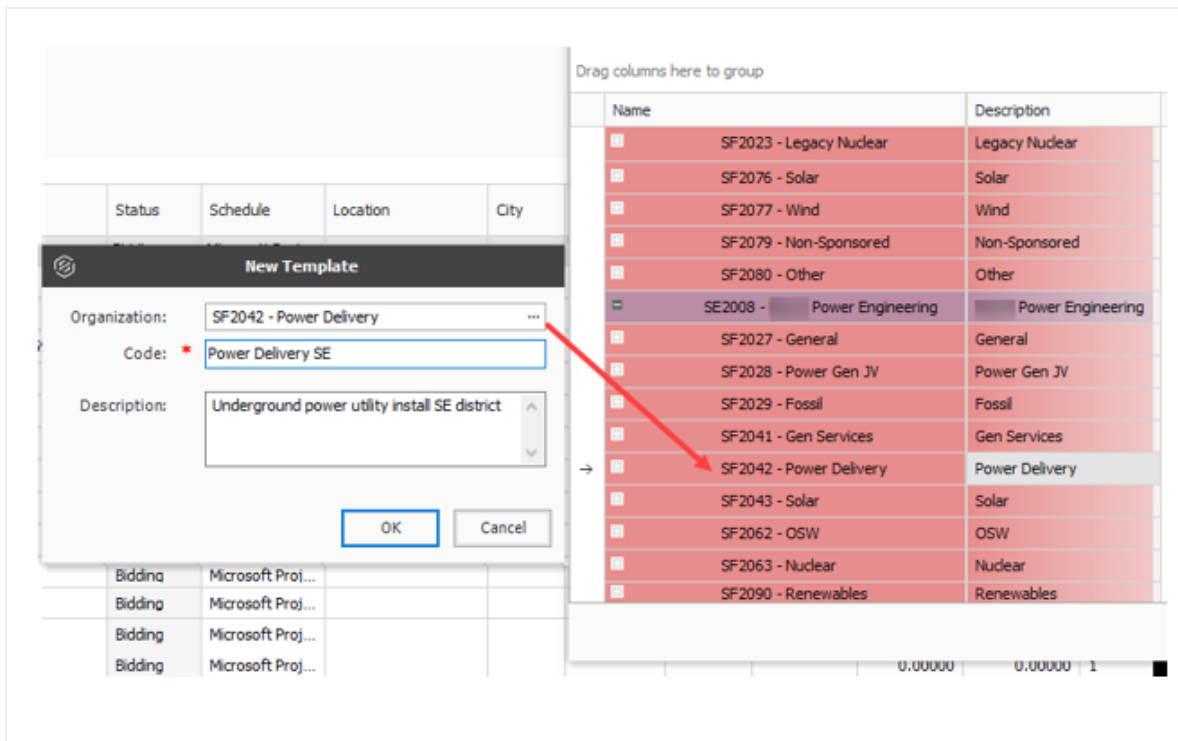
10.3.1 Assign Templates to OBS

You can assign templates to specific organizational nodes in the OBS, grant permissions, and control user access for templates.

The screenshot shows a web application window titled "Organization Register - Library". At the top left, there is a logo and a dropdown arrow. Below the title bar is a blue header with the text "Actions". Underneath, there is a prompt "Drag columns here to group". The main content is a table with two columns: "Name" and "Description". The table contains 20 rows of data, grouped into two main categories: "Power Constructors" and "Power Engineering". Each row has a small square icon to its left. To the right of the table is a vertical scrollbar. At the bottom right of the window, there is a "Cancel" button.

Name	Description
SE2007 - Power Constructors	Power Constructors
SF2023 - Nuclear	Nuclear
SF2072 - Fossil	Fossil
SF2073 - Nuclear	Nuclear
SF2075 - Carbon Capture	Carbon Capture
SF2076 - Solar	Solar
SF2077 - Wind	Wind
SF2079 - Non-Sponsored	Non-Sponsored
SF2080 - Other	Other
SE2008 - Power Engineering	Power Engineering
SF2027 - General	General
SF2028 - Power Gen JV	Power Gen JV
SF2029 - Fossil	Fossil
SF2041 - Gen Services	Gen Services
SF2042 - Power Delivery	Power Delivery
SF2043 - Solar	Solar
SF2062 - OSW	OSW
SF2063 - Nuclear	Nuclear
SF2089 - Geospatial	Geospatial







For example, you can assign a template to a specific node level in the OBS that is specific to Power Delivery. The OBS node structure assignment is useful for assigning estimators access to designated templates as determined by an Estimate administrator.



10.3.1.1 Template Permissions

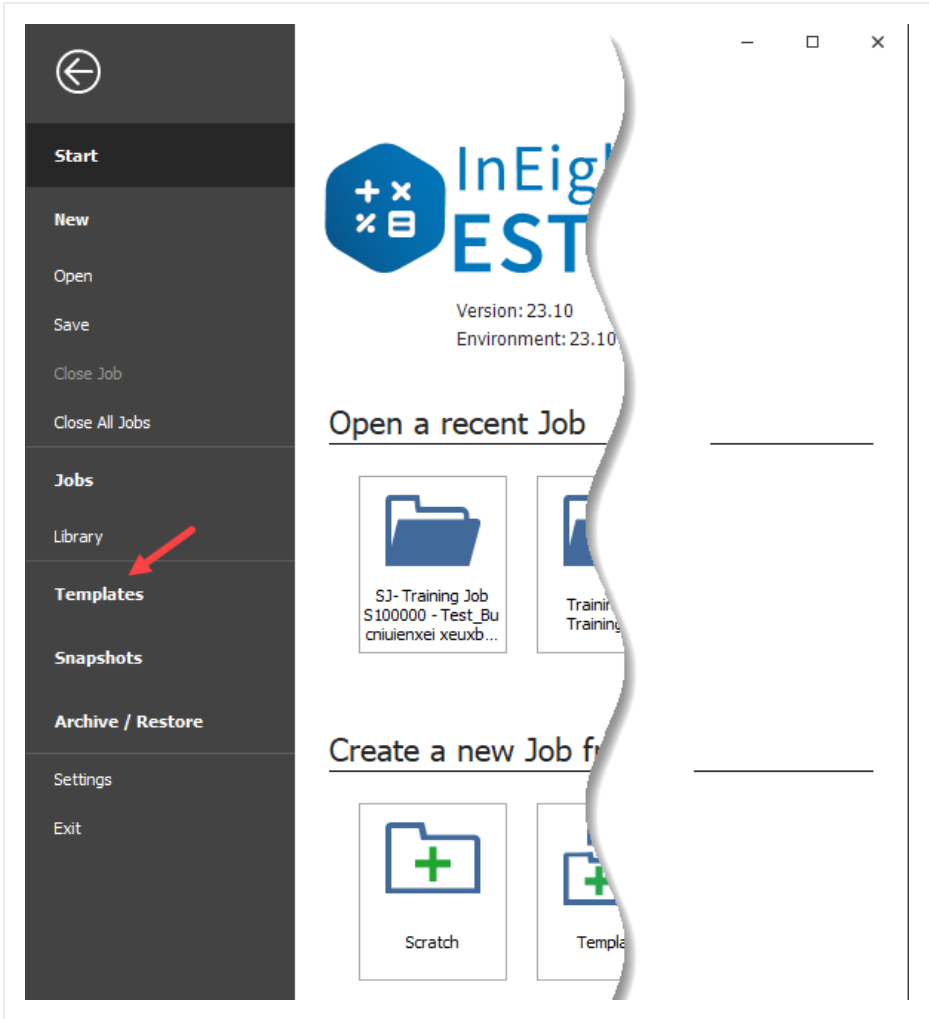
Estimators with the appropriate Estimate/template permissions in Suite Administration > Roles and Permissions > Master Data Libraries > **Estimate**, can use the templates in which they are assigned to in their designated OBS node.

The screenshot shows the 'Edit role' page in the Suite administration interface. At the top, there is a navigation bar with a home icon and the text 'Suite administration / Roles and permissions'. Below this, there are two buttons: 'Roles and permissions' and 'Edit role'. The main content area is titled 'Estimate' and contains a list of permissions, each with a checked checkbox and a warning icon:

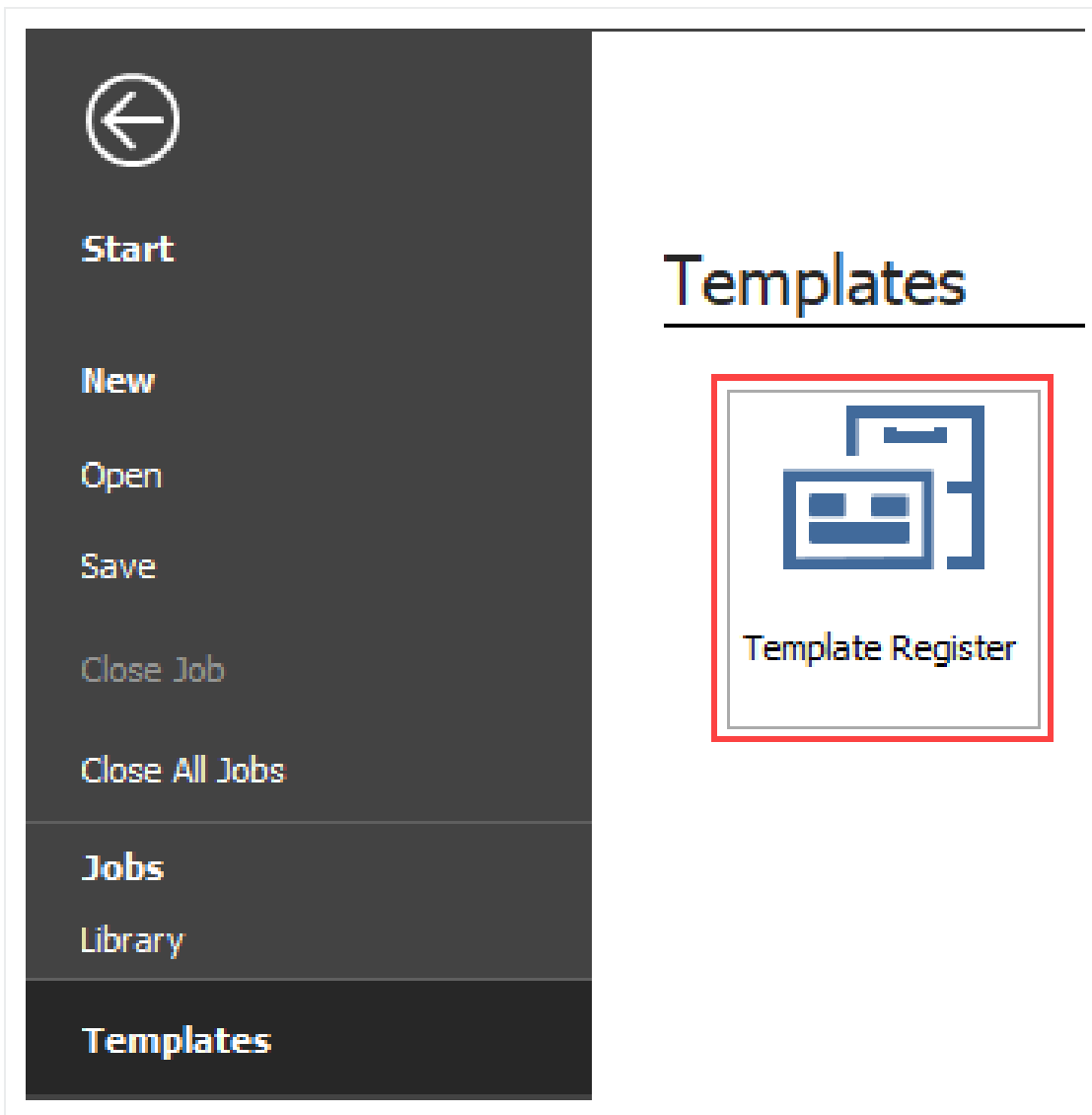
-  Edit estimate library 
- Use templates 
 -  Add template
 -  Edit template
 -  Delete template

Step by Step — Assign Template to OBS

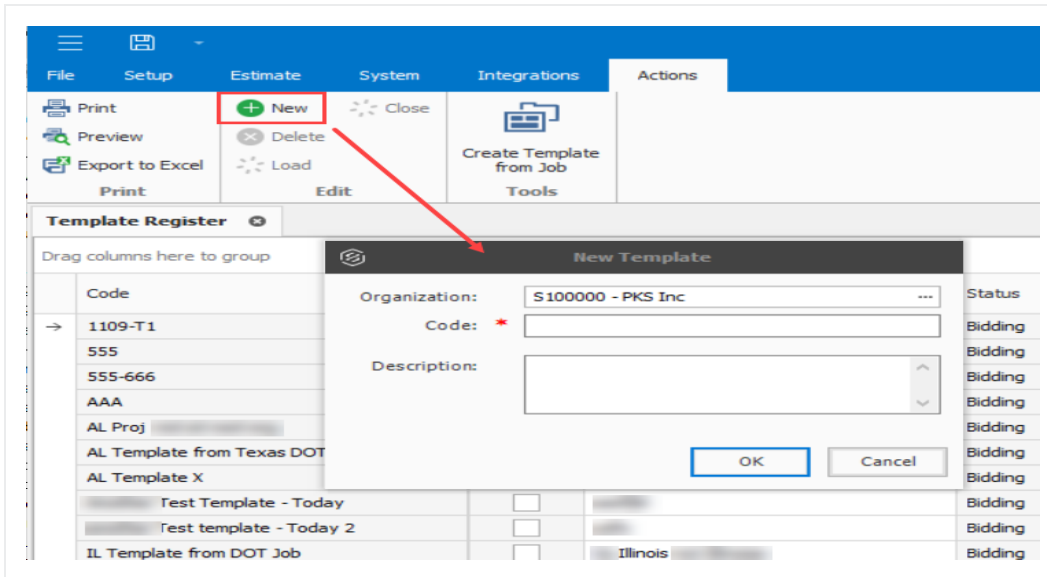
1. Open the **Training Job**, then select the **Templates**.



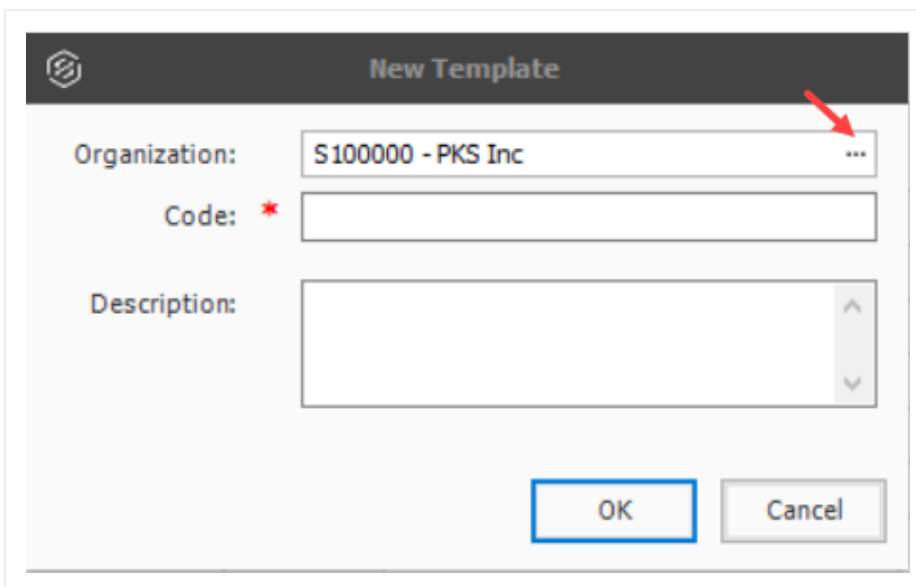
2. Select **Template Register**.



3. Select **New**.

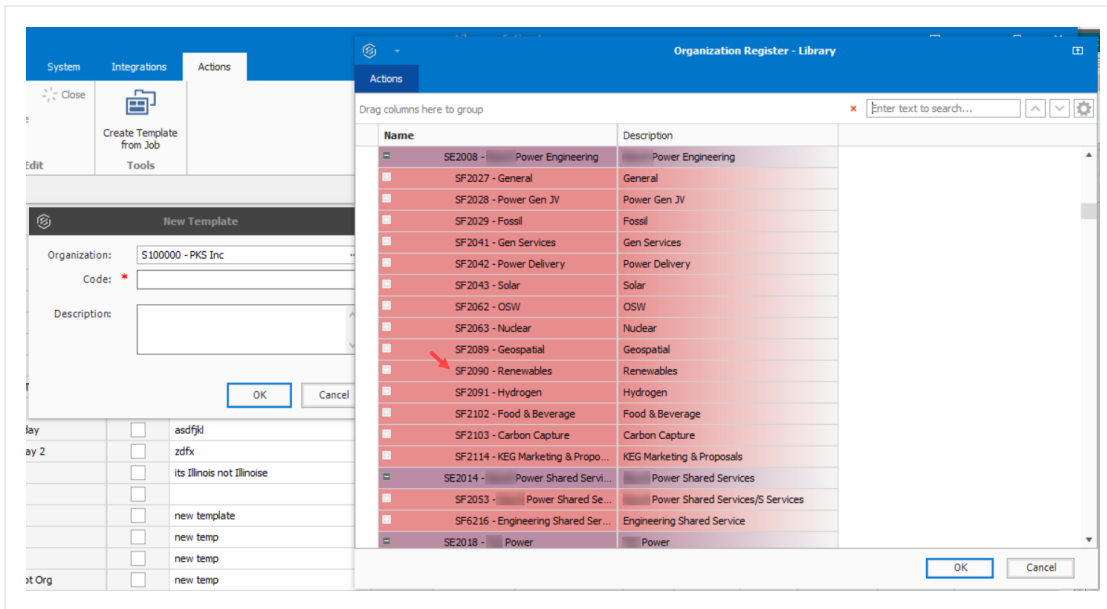


4. Click the **ellipsis** to the right of the Organization field.



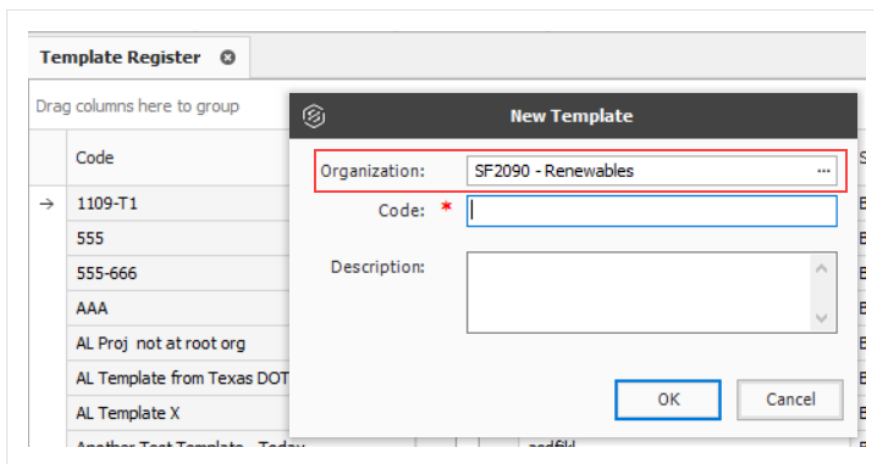
The Organization Register Library opens.

5. In the Organization Register Library, select **SF2090-Renewables**, and then click **OK**.



The new template will be set at the SF2090-Renewables node in the OBS. Users assigned to the SF2090-Renewables level or above in the OBS will be permitted to use this template when creating estimates.

6. The next step will be to create a new template code and a description to complete the new template creation process.



What's next: After the template is created you can start to create estimates using a template.

10.4 BID WIZARD

InEight Estimate's Bid Wizard is a powerful tool that can help automate the process of setting up estimates by copying information that already exists in other InEight Estimate job folders. The Bid Wizard can be used to create new projects, create a new job from an existing template, or to add to projects that are already underway.

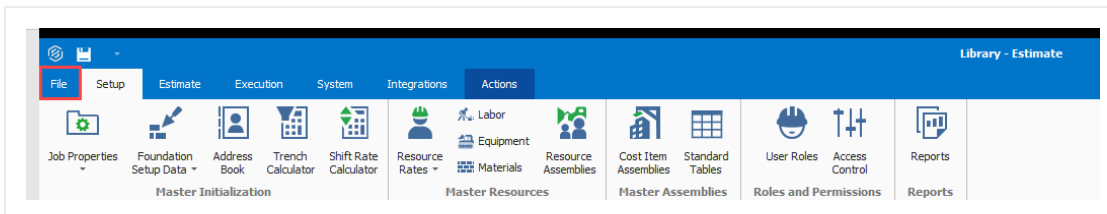
Rather than copying every part of an existing job, the Bid Wizard gives you more flexibility and control over which parts of a job you want to duplicate, e.g., pay items or cost items or both.

In most cases you will be copying cost items, but if you have a project with pay items that are commonly used, you can copy them into a new project. If you select pay items, you will be able to select cost items as well.

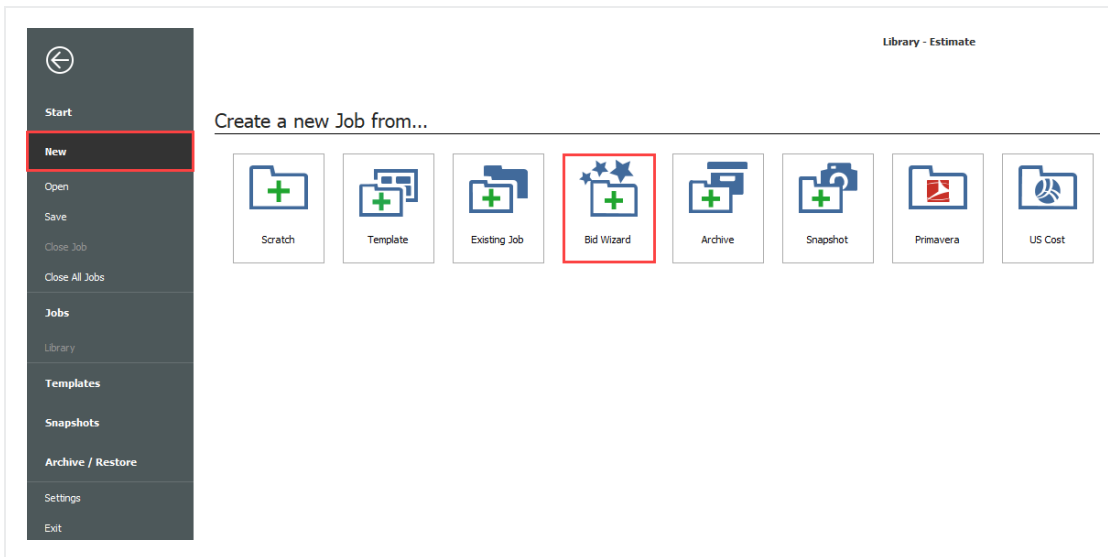
The following Step by Step walks you through how you can use the Bid Wizard to create a new job by importing pay items and their associated costs from an existing job.

Step by Step — Use the Bid Wizard

1. To open the Bid Wizard, click the **File** tab on the Estimate landing page.



2. From the left side panel, select **New**, then select **Bid Wizard**.



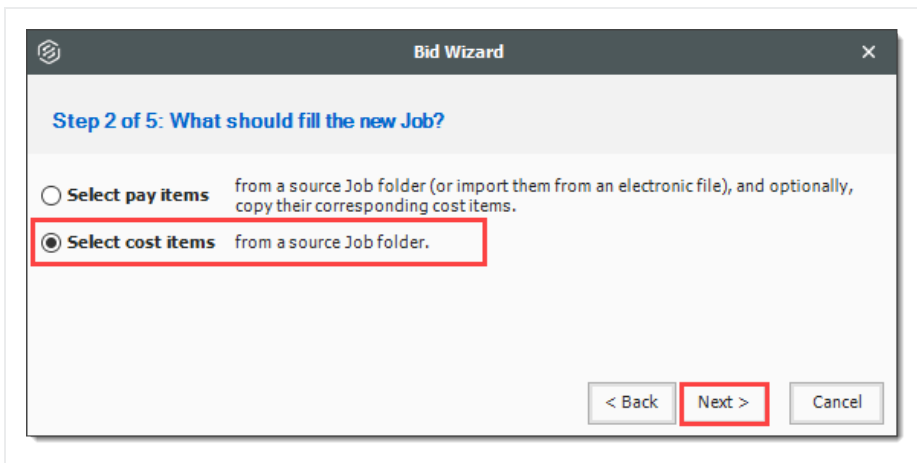
- The Bid Wizard – Step 1 dialog displays

The 'Bid Wizard' dialog box is shown with the title 'Bid Wizard' and a close button. The main heading is 'Step 1: What would you like to do?'. There are two radio button options: 'Create a new job:' (selected) and 'Add to existing job:'. The 'Create a new job:' option has two text input fields: 'New Code:' and 'Description:'. The 'Add to existing job:' option has a dropdown menu labeled '[Select Source Job]'. At the bottom right are 'Next >' and 'Cancel' buttons.

TIP

Notice that you can either create a new project or add to an existing project.

3. Type **E101 Bid Wizard** (with your initials) in the New Code field.
4. Type **Bid Wizard Example** in the Description field.
5. Click the **Next** button.
 - The Bid Wizard – Step 2 dialog displays
6. Choose **Select cost items** and click **Next**.



- The Bid Wizard – Step 3 of 4 dialog displays
 - You use this step to indicate which source you want to pull your setup data from (the library or your source job)
7. For all selections, select **Copy from source job**.
 8. Check the **Also copy all non-utilized resources** checkbox.
 9. Select **Copy from source job** under Unassigned Cost Items and Markup, and the **Copy Markup** box is automatically selected.

Bid Wizard

Step 3 of 4: What would you like to do?

Job Properties

Copy from Master Job Properties

Copy from source job

Job Properties contains the Overview, Security, Cover Sheet, Cost Basis, Minority Setup and Fuel Cost for the job.

Foundation Setup Data

Copy from Master Foundation Setup Data

Copy from source job

Foundation Setup Data contains the Account Codes, Tags, Quote Group Tags, Units of Measure, Currencies, Resource / Assembly Files, Geographic Areas, Wage Zones, Organization Categories and Weather Tags.

Resources and Resource Assemblies

Copy utilized Resources and Resource Assemblies from source job

Also copy all non-utilized resources

Resources and Resource Assemblies that are utilized by Cost Items in the source job(s) are copied by default. Optionally, all Resources and Resource Assemblies can be copied from the source job(s) into the new job.

Unassigned Cost Items and Markup

Copy from Master CBS

Copy from source job

Copy Markup

Unassigned Cost Items are those cost items in the CBS that are not assigned to specific pay items, including Prime Bond, Job Financing, General Expense, and others.

Workbook

Copy from Library

Copy from source job

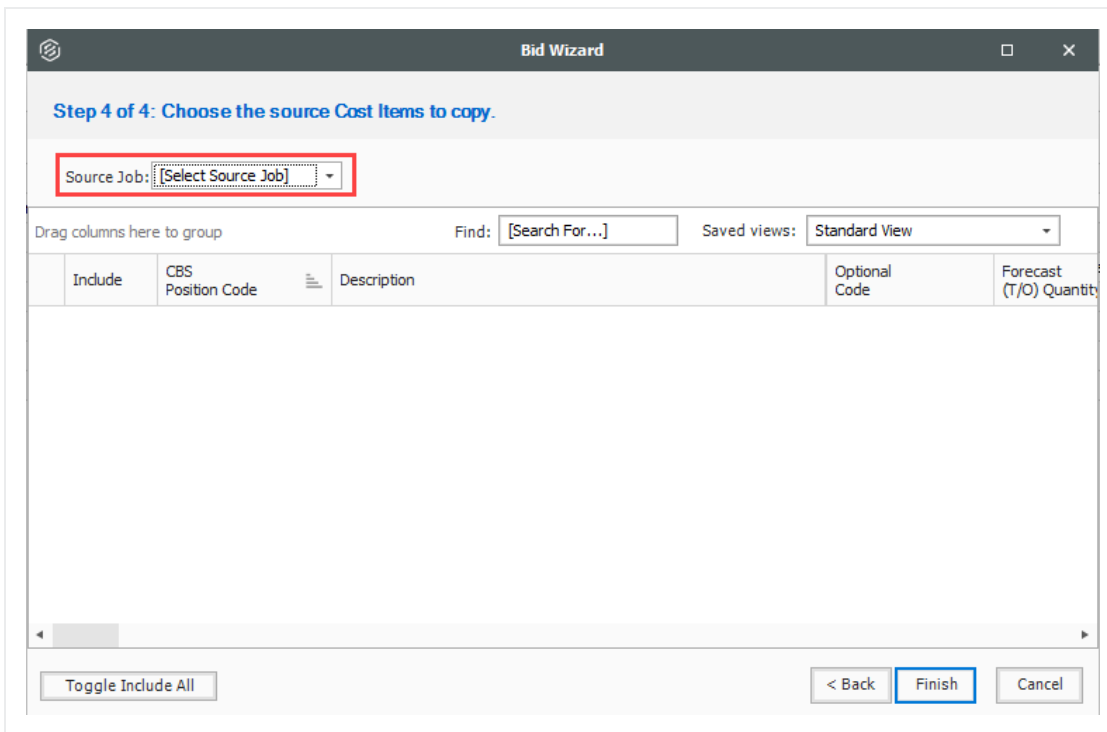
The workbook contains data that is used to link fields in Estimate to cells in Excel. The workbook containing the data that you want to use for linking with Excel can be copied from the Library or the source job.

< Back Next > Cancel

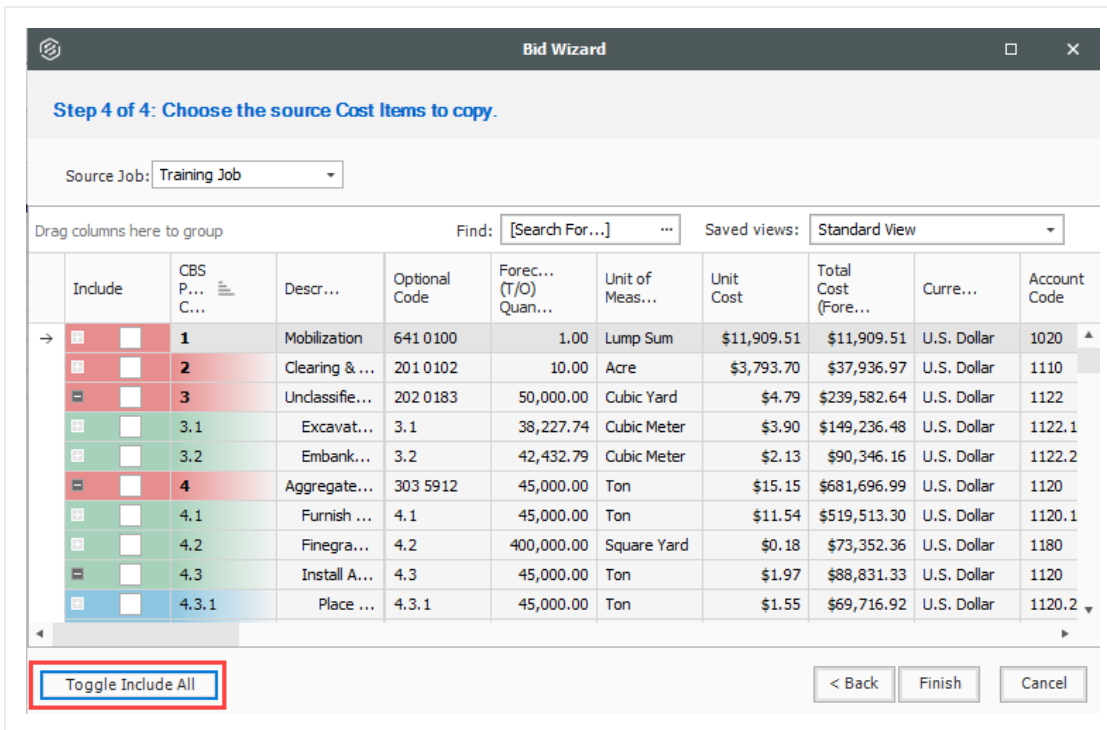
10. Click **Next**.

- The Bid Wizard – Step 4 of 4 dialog displays

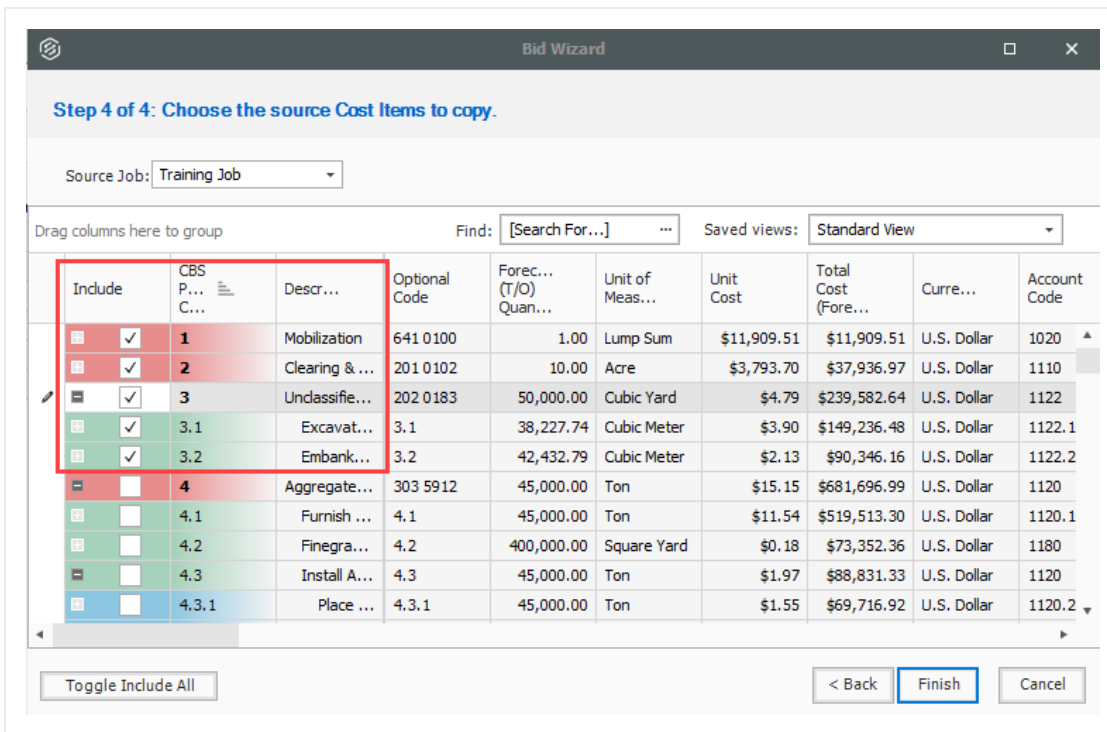
11. Click the **Source Job** drop-down arrow.



- The Job Register opens
12. Find and select **Training Job**.
 13. Click **OK**.
 - This screen displays the cost items of the source job (Training Job). All items are automatically selected
 14. Use the **Toggle Include All** button to exclude all selections.



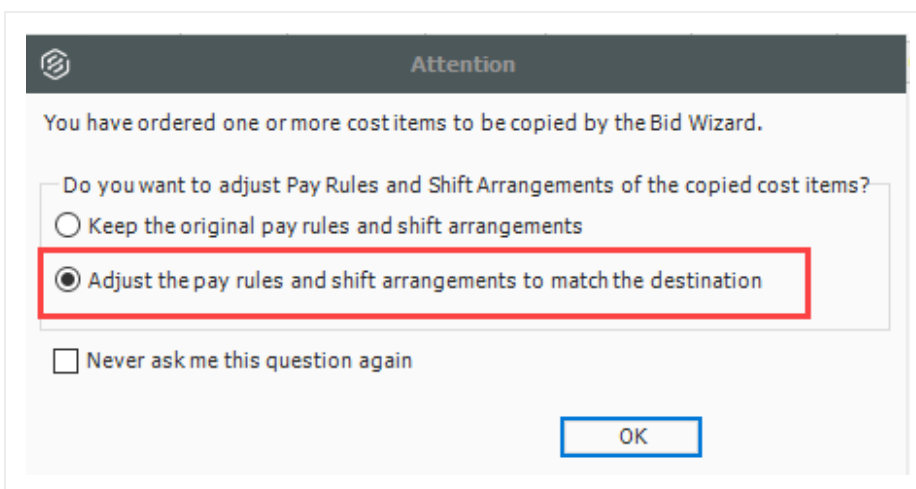
15. Select the checkboxes to include **Mobilization**, **Clearing & Grubbing**, and **Unclassified Excavation**.
16. Notice that when selecting **Unclassified Excavation**, that cost item's subordinates are automatically selected



17. Click **Finish** to add the new job.

- An Attention prompt appears asking, “Do you want to adjust Pay Rules and Shift Arrangements of the copied cost items?”
- Typically, you will want to use the shifts and payment rules of your new destination job.

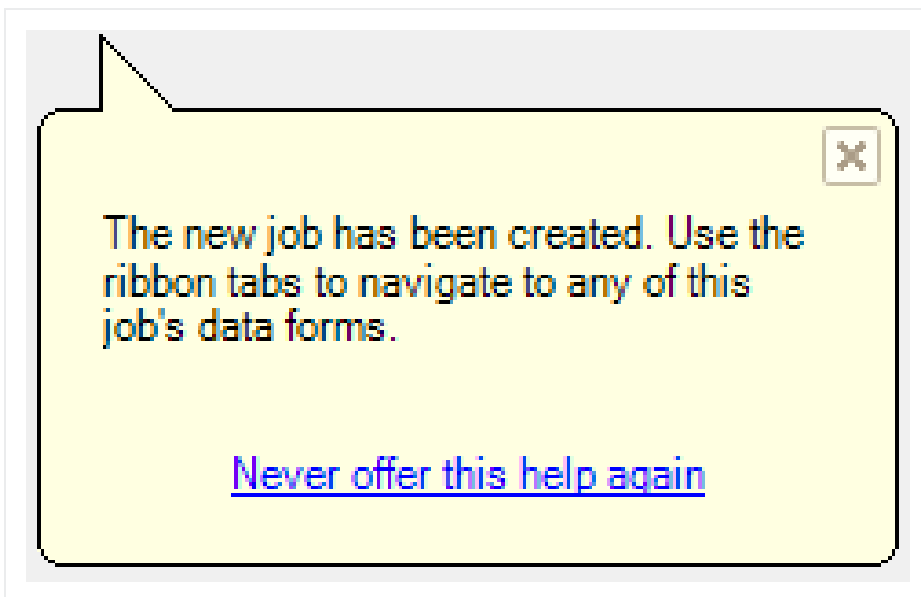
18. Select **Adjust the pay rules and shift arrangements to match the destination.**



19. Click **OK**.

- A help bubble appears letting you know the job has been created, and that you can use the ribbon tabs on the Estimate landing page to open any form

20. Close the help bubble by selecting the **X** in the upper right corner.



21. Open the **Estimate > CBS** to see the three cost items that were brought in.

Cost Breakdown Structure (CBS) Register				
Drag columns here to group				
CBS Position Code	Description	Really Optional Code	Forecast (T/O) Quantity	Unit of Measure
→	JOB		1.00	Lump Sum
+	Prime Bond	PRIME BOND	1.00	Lump Sum
+	Price % Add-On	PRICE % ADD-ON	1.00	Lump Sum
+	Job Financing	FINANCE EXPENSE	1.00	Lump Sum
+	Indirect Cost Escalation	INDIRECT COST ESCAL...	1.00	Lump Sum
+	Direct Cost Escalation	DIRECT COST ESCALAT...	1.00	Lump Sum
+	Indirect Cost Add-On	INDIRECT COST ADD-ON	1.00	Lump Sum
+	Job Management & Equipment	JOB MANAGEMENT & E...	1.00	Lump Sum
+	General Expense	GENERAL EXPENSE	1.00	Lump Sum
+	Direct Cost Add-On	DIRECT COST ADD-ON	1.00	Lump Sum
+ 1	Mobilization	641 0100	1.00	Lump Sum
+ 2	Clearing & Grubbing	201 0102	10.00	Acre
3	Unclassified Excavation	202 0183	50,000.00	Cubic Yard
+ 3.1	Excavation	3.1	38,227.74	Cubic Meter
+ 3.2	Embankment	3.2	42,432.79	Cubic Meter

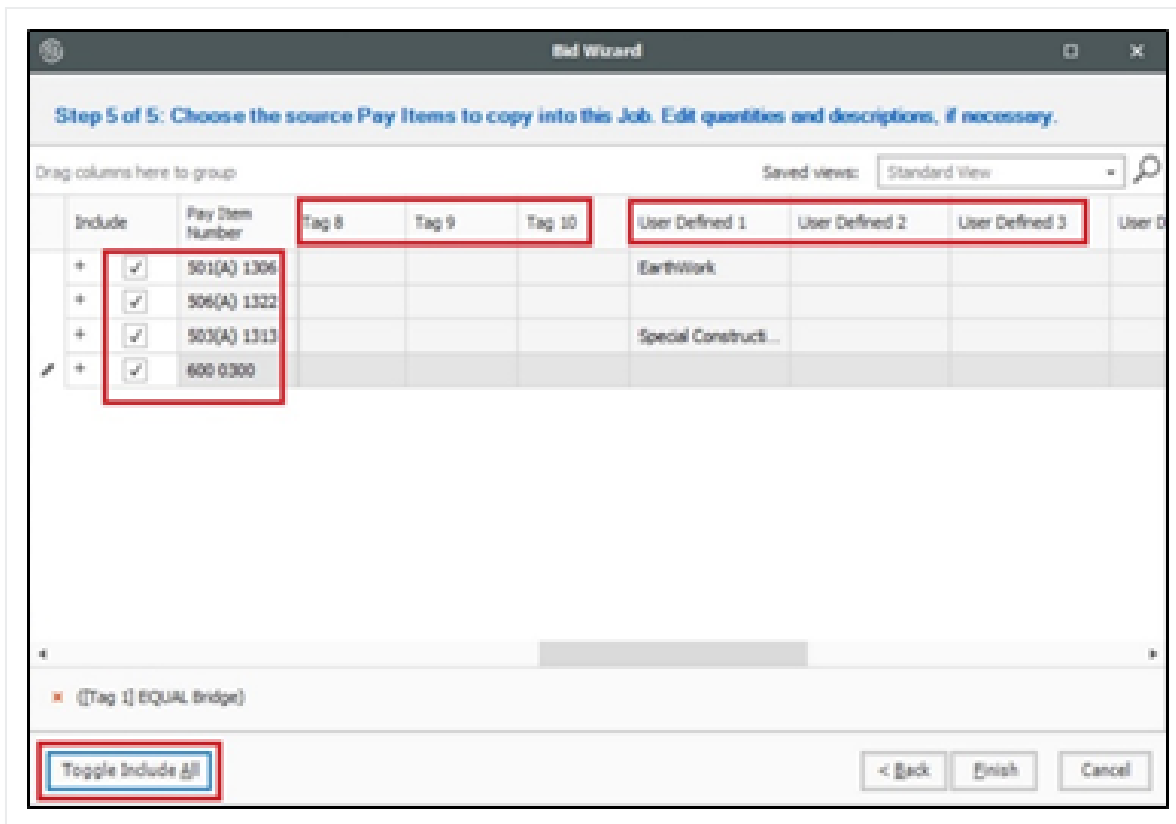
10.4.1 Bid Wizard Updates

While using the Bid Wizard, the Include option is left unchecked by default. A filter is applied to bring in pay items when using the Bid Wizard. The Toggle Include All button only selects the filtered list of items instead of all items.

When the filter criteria is modified, the selected items remain checked even if some of the items might not be visible in the view. When the view is changed, the selected items remain checked.

Tags and UDF fields are included in the **Bid Wizard Selection** register for the cost items and Pay Item & Proposal selection registers. This lets you filter the list of cost items based on a tag or UDF.

When you select the **Toggle Select All** button, only filtered items are included which allow you to include scopes of work relevant to your estimate without having to manually select all items needed.



10.5 COPY ESTIMATE DATA USING EDIT COMMANDS

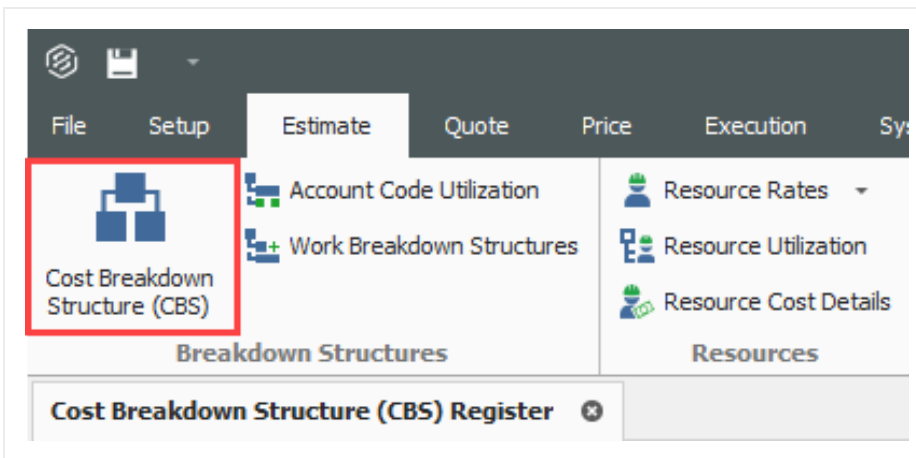
While the Bid Wizard is an efficient way to copy cost history into new projects, you may prefer to use edit commands such as copy and paste to bring cost history into your estimate.

To copy and paste cost history from one job to another, it is beneficial to see the jobs side by side. The following steps walk you through the process.

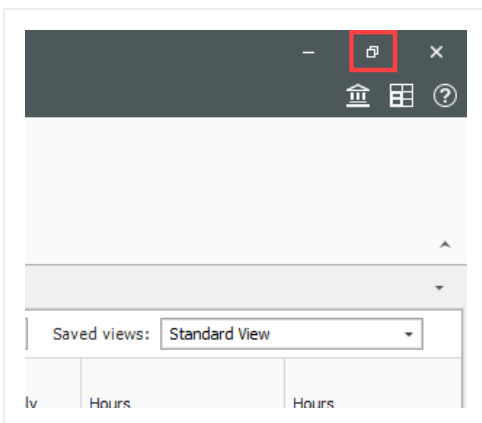
Step by Step — Copy Estimate Data Using Edit Commands

1. Click the **File** tab from the Estimate landing page and open the **E101 Bid Wizard** job you just created.
2. Open the **Training Job** (if you do not still have it open).

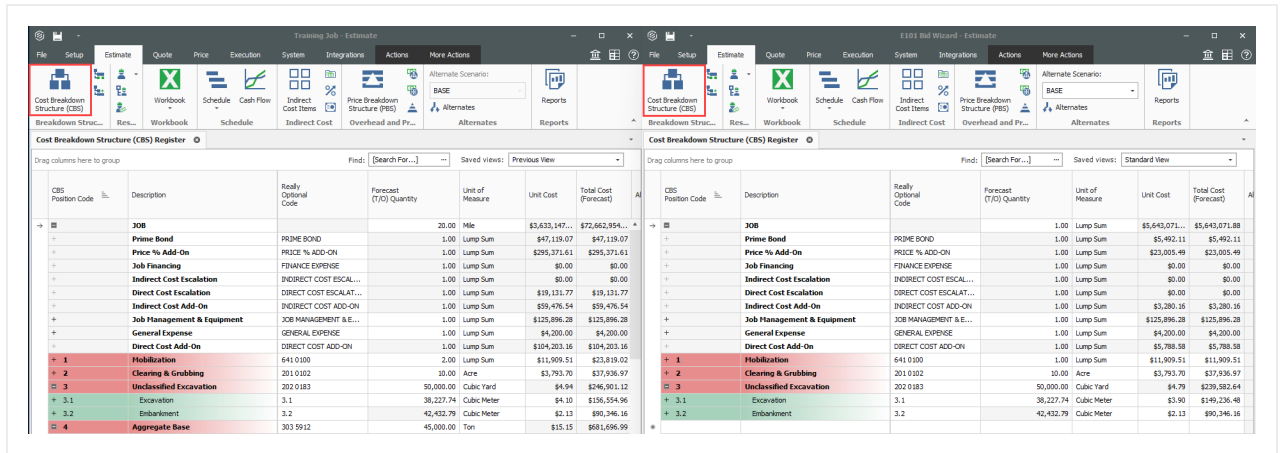
- 3. Make sure the CBS is open for both jobs by going to the Estimate menu and selecting **Cost Breakdown Structure (CBS)**.



- 4. Since you have both jobs open and they are in their own application window, align them to be side by side by using the **minimize icons** of each job or utilizing Windows align functionality.



- Note that the window caption identifies the CBS Register for each job



5. On the CBS of the Training Job, click the row header on cost item **4 – Aggregate Base** and press **Ctrl+C** to copy the cost item.

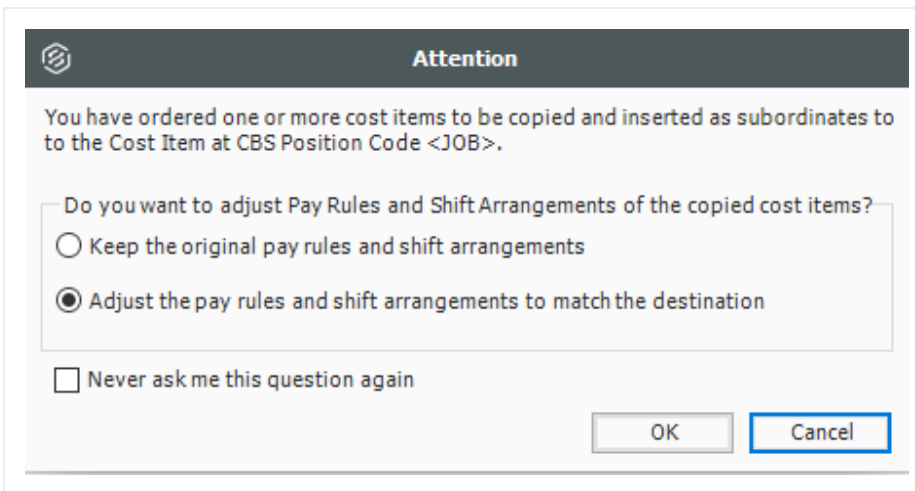
→	4	Aggregate Base	303 5912
+	4.1	Furnish & Haul Base Material	4.1
+	4.2	Finegrade Subgrade	4.2
+	4.3	Install Aggregate Base	4.3
+	4.3.1	Place Aggregate Base	4.3.1
+	4.3.2	Blue Top Aggregate Base	4.3.2

TIP When you copy a superior cost item, all of its subordinates are automatically copied.

6. On the CBS of the E101 Bid Wizard job, click the row header on the first blank register row, and press **Ctrl+V** to paste the cost item.

+	1	Mobilization	641 0100	1.00	Lump Sum
+	2	Clearing & Grubbing	201 0102	10.00	Acre
+	3	Unclassified Excavation	202 0183	50,000.00	Cubic Yard
+	3.1	Excavation	3.1	38,227.74	Cubic Meter
+	3.2	Embankment	3.2	42,432.79	Cubic Meter
→					

- On the Attention dialog, select **Adjust the pay rules and shift arrangements to match the destination** and click **OK**.



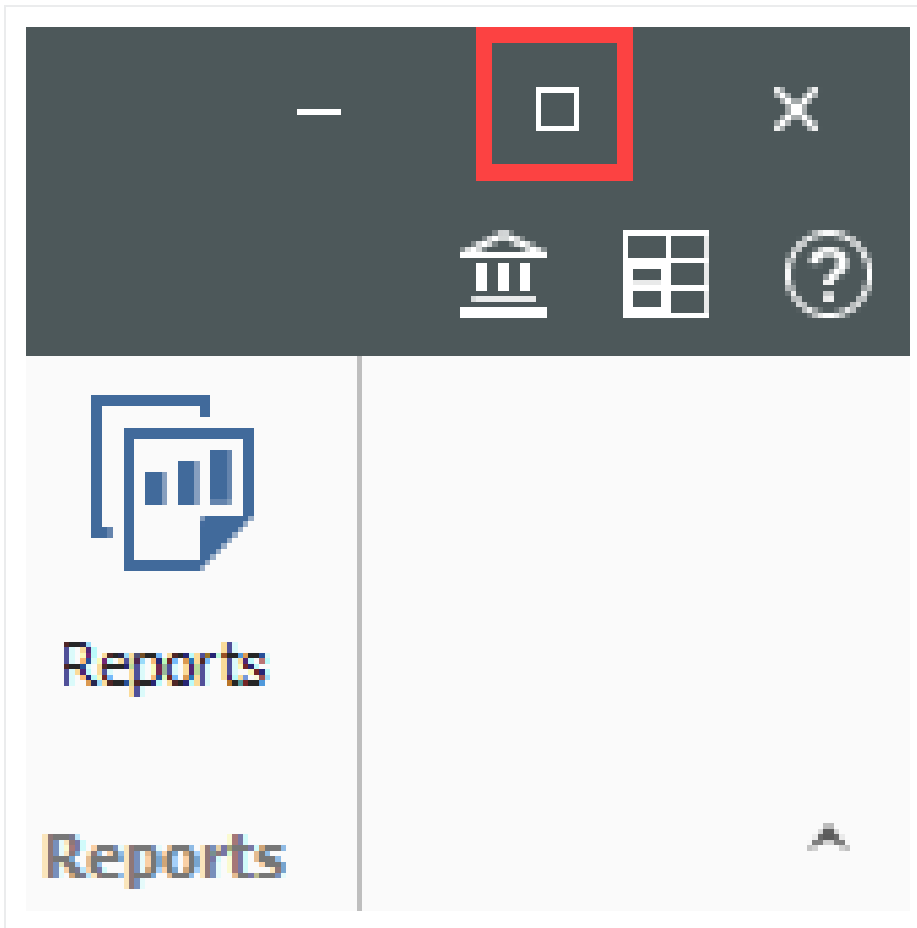
- You can see in the destination job's CBS that you've added the Aggregate Base cost item, along with its subordinate cost items and all cost and productivity detail

CBS Position Code	Description	Really Optional Code	Forecast (T/Q) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)
JOB						
+	Prime Bond	PRIME BOND	1.00	Lump Sum	\$47,119.07	\$47,119.07
+	Price % Add-On	PRICE % ADD-ON	1.00	Lump Sum	\$295,371.61	\$295,371.61
+	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	INDIRECT COST ESCAL...	1.00	Lump Sum	\$19,131.77	\$19,131.77
+	Indirect Cost Add-On	INDIRECT COST ADD-ON	1.00	Lump Sum	\$59,476.54	\$59,476.54
+	Job Management & Equipment	JOB MANAGEMENT & E...	1.00	Lump Sum	\$125,896.28	\$125,896.28
+	General Expense	GENERAL EXPENSE	1.00	Lump Sum	\$4,200.00	\$4,200.00
+	Direct Cost Add-On	INDIRECT COST ADD-ON	1.00	Lump Sum	\$194,203.16	\$194,203.16
1	Hobolization	641 0100	2.00	Lump Sum	\$11,909.51	\$23,819.02
2	Clearing & Grubbing	201 0102	10.00	Acre	\$3,793.70	\$37,936.97
3	Unclassified Excavation	202 0183	50,000.00	Cubic Yard	\$4.94	\$246,901.12
3.1	Excavation	3.1	38,227.74	Cubic Meter	\$4.10	\$156,554.96
3.2	Subsoilment	3.2	42,422.79	Cubic Meter	\$2.13	\$90,346.16
4	Aggregate Base	303 5912	45,000.00	Ton	\$15.15	\$681,696.99
4.1	Furnish & Haul Base Material	4.1	45,000.00	Ton	\$11.54	\$515,513.30
4.2	Finegrade Subgrade	4.2	400,000.00	Square Yard	\$0.18	\$73,352.36
4.3	Install Aggregate Base	4.3	45,000.00	Ton	\$1.97	\$88,831.33
4.3.1	Place Aggregate Base	4.3.1	45,000.00	Ton	\$1.55	\$69,716.92
4.3.2	Blue Top Aggregate Base	4.3.2	400,000.00	Square Yard	\$0.05	\$19,114.42
5	Asphalt Concrete Hot Mix Type A	303 4203	35,000.00	Ton	\$42.62	\$1,491,980.59

TIP You can also drag and drop cost items from one CBS to another instead of copying and pasting.

TIP Copied cost items are considered Job Overhead until they are assigned to a pay item

- To go back to your full screen view of the E101 Bid Wizard job, select the maximize icon.



10.6 CBS BID WIZARD

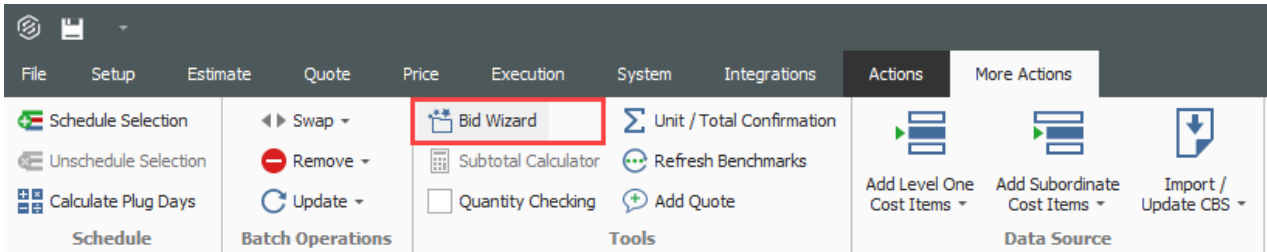
You can also use the Bid Wizard to add cost items while you are in the CBS Register. The following steps walk through using the CBS Bid Wizard.

Step by Step — Use the CBS Bid Wizard

1. Click the **File** tab from the Estimate landing page and open the **E101 Bid Wizard** job you created.
2. From the **Estimate** tab, select **Cost Breakdown Structure (CBS)**.
3. Create a new cost item by typing **New** in the Description column on the bottom row of the CBS
4. Highlight the **New** row.

4	Aggregate Base	303 5912	45,000.00	Ton
+ 4.1	Furnish & Haul Base Material	4.1	45,000.00	Ton
+ 4.2	Freight Subgrade	4.2	400,000.00	Square Yard
4.3	Install Aggregate Base	4.3	45,000.00	Ton
+ 4.3.1	Place Aggregate Base	4.3.1	45,000.00	Ton
+ 4.3.2	Blue Top Aggregate Base	4.3.2	400,000.00	Square Yard
New			1.00	Each

5. To open the CBS Bid Wizard, click the **Bid Wizard** icon on the **More Actions** tab.



- The Bid Wizard window opens

6. Click in the **Source Job** column on the New cost item row.

Place Aggregate Base		45,000.00	Ton	[Select Source Job]
Blue Top Aggregate Base		400,000.00	Square Yard	[Select Source Job]
New		1.00	Each	[Select Source J... ▼]

7. From the Source Job drop-down list, select **Training Job**.

8. Scroll to the right of the Source Job column and click in the **Source CBS Position Code** column on the New Cost item row.

- A source CBS Register window appears

9. Select CBS position code **5 – Asphalt Concrete Hot Mix Type A** from the register.

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

CBS Position Code	Description	Really Optional Code	Unit of Measure	Forecast (T/O) Quantity
4.2	Finegrade Subgrade	4.2	Square Yard	
4.3	Install Aggregate Base	4.3	Ton	
4.3.1	Place Aggregate Base	4.3.1	Ton	
4.3.2	Blue Top Aggregate Base	4.3.2	Square Yard	
5	Asphalt Concrete Hot Mix Type A	303 4263	Ton	
5.1	Furnish & Haul Hot Mix	5.1	Ton	
5.2	Install Hot Mix Type A	5.2	Ton	
6	36 Inch RCP Culvert Class III	413(B) 0464	Linear Feet	
6.1	Furnish RCP Materials	6.1	Linear Feet	
6.2	Excavate RCP Trench	6.2	Cubic Yard	
6.3	Install RCP Pipe	6.3	Linear Feet	
6.4	Backfill RCP Pipe	6.4	Cubic Yard	

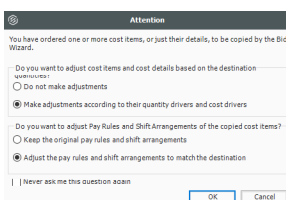
OK Cancel

10. Click **OK**.

11. Click **Finish** on the Bid Wizard.

- An Attention prompt displays, asking if you want to make adjustments
- Keep the default options selected: **Make Adjustments according to their quantity drivers and cost drivers** and **Adjust the pay rules and shift arrangements to match the destination**

12. Click **OK**.



- You can see that cost item 5 and its subordinates are now imported into your existing job.
- You could choose a new name for the cost item, or name it **Asphalt Concrete Hot Mix Type A** to match the original cost item

4.3	Install Aggregate Base	4.3	45,000.00	Ton
+ 4.3.1	Place Aggregate Base	4.3.1	45,000.00	Ton
+ 4.3.2	Blue Top Aggregate Base	4.3.2	400,000.00	Square Yard
5	Asphalt Concrete Hot Mix Type A		1.00	Each
+ 5.1	Furnish & Haul Hot Mix	5.1	1.00	Ton
+ 5.2	Install Hot Mix Type A	5.2	1.00	Ton

10.7 SNAPSHOTS

A job snapshot is a copy of an estimate that provides read-only access to the job as it existed at a specific point in time. You can now filter the Snapshot register to jobs containing snapshots.

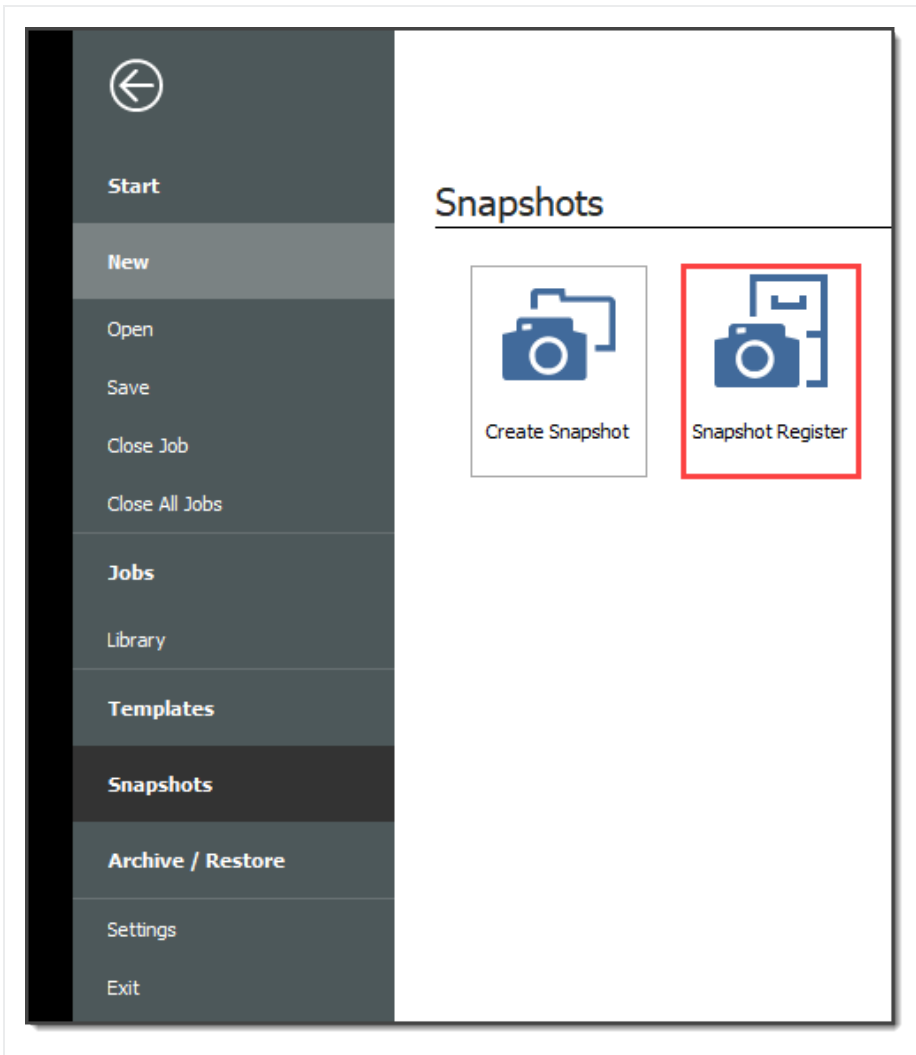
The Snapshot register has some additional columns as well. In addition to the Code, Description, Last Saved, and Version column, the Snapshot register contains all fields that are present on the Jobs register that provides you with an easier way to group, sort, filter, and find the jobs you need.


10.7.1 Snapshot Register

The Snapshot Register is where you will view individual snapshots for specific jobs.

Step by Step — Snapshot Register

1. Click the **File** tab to open the Backstage View. In the panel, select **Snapshots**.
2. From the Snapshots form, select the **Snapshot Register** tab.



3. To view individual snapshots for specific jobs, click the  icon next to the desired job to display the list of snapshots.

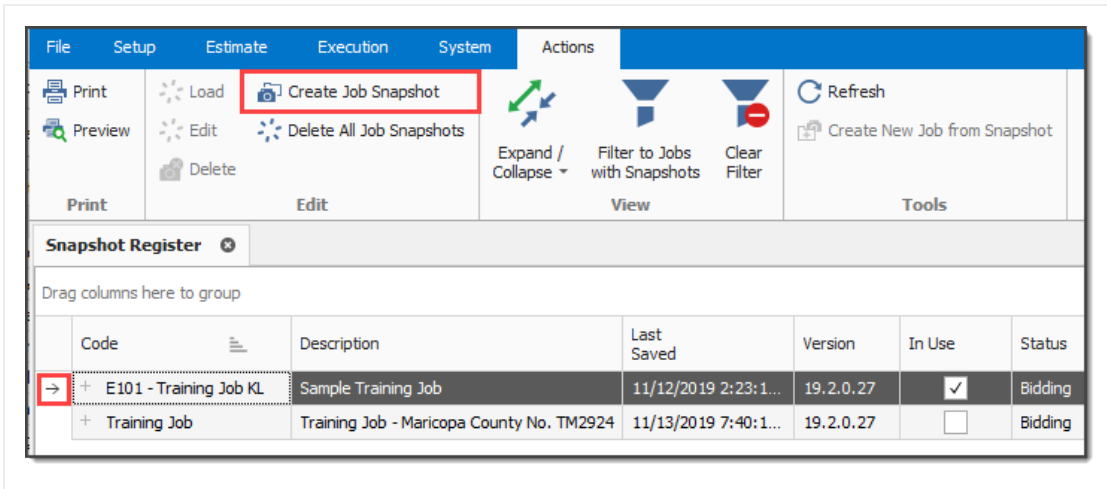
	Code	Description
→ 	E101 - Training Job KL	Sample Training Job
	Training Job	Training Job - Maricopa County No. TM2924

10.7.2 Creating a New Job Snapshot

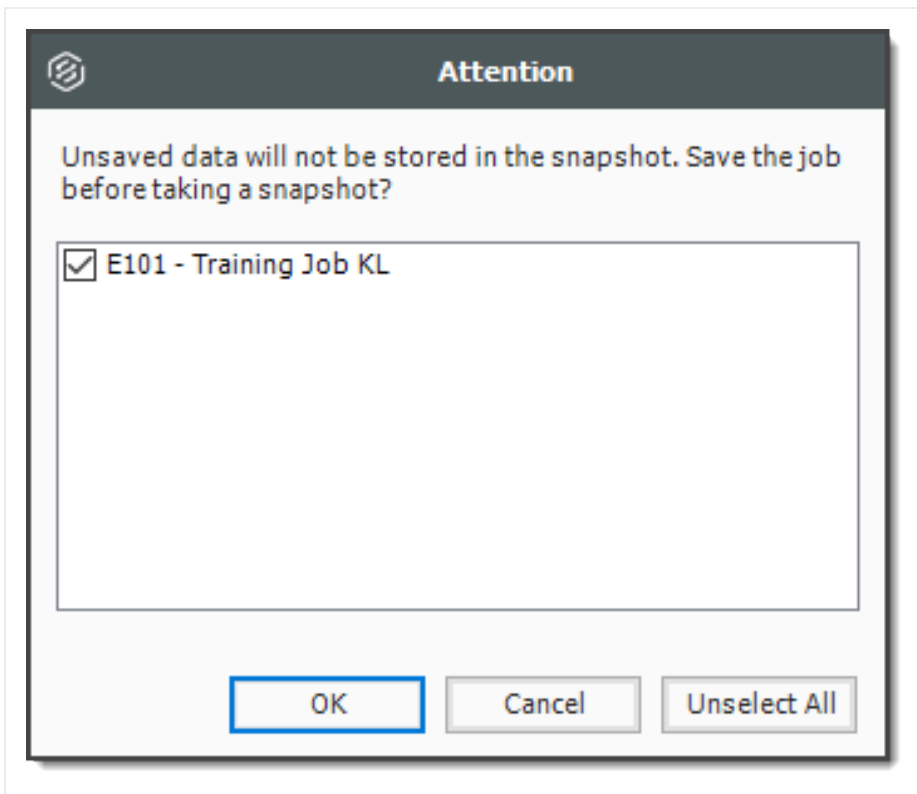
Step by Step — Create a New Job Snapshot

You can create a Job Snapshot from an existing Job.

1. From the Snapshots form, select the **Create Snapshot** tab.

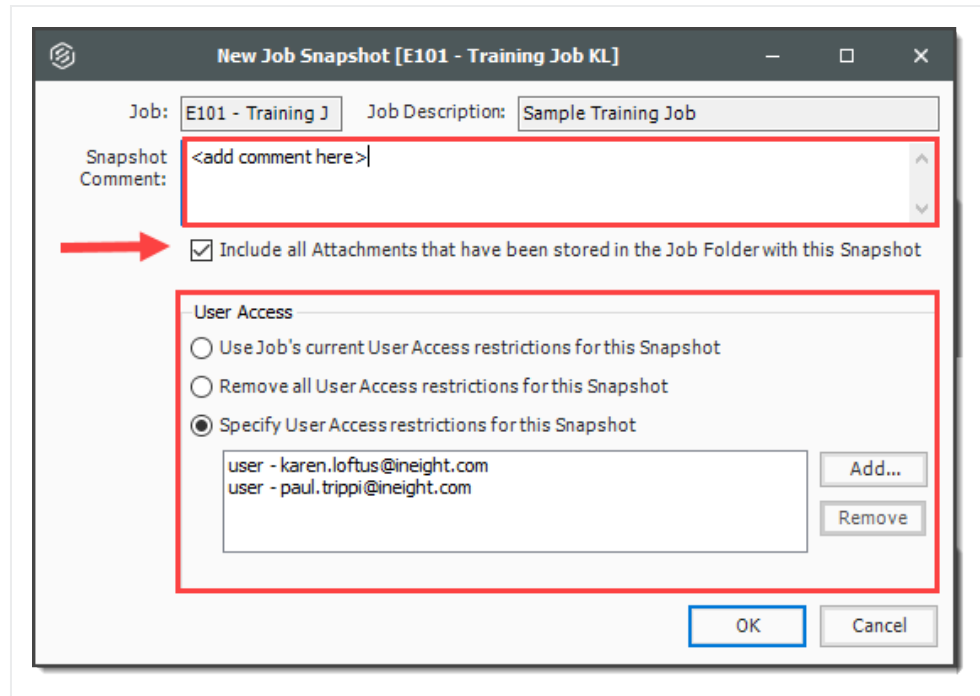


2. If an existing job is open select **Save**, if you haven't already done so.

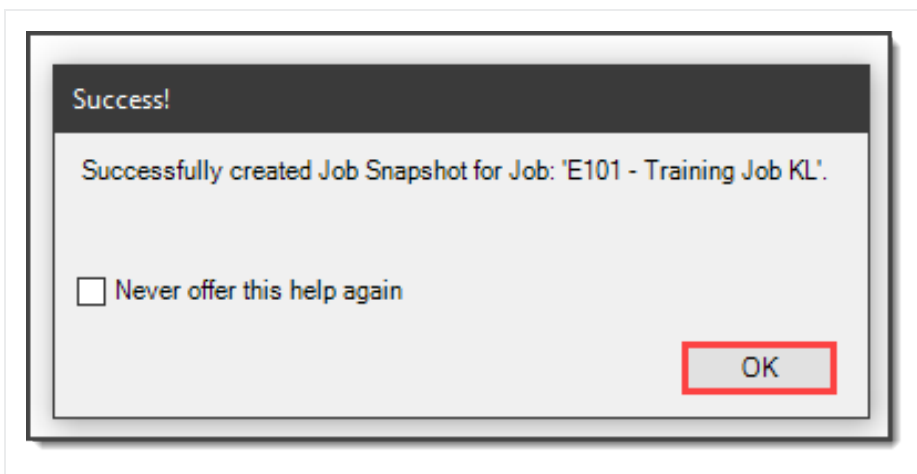


3. A New Job Snapshot [Job Code Here] dialog box appears. From there, you can add a Snapshot comment.
 - If you want to Include all Attachments that have been stored in the Job Folder with this Snapshot, select the check box, otherwise uncheck the box.
 - If you want to Use Job's current User Access restrictions for this Snapshot, select this radio button.
 - If you want to Remove User Access restrictions for this Snapshot and allow read-only access to all users, select this radio button
 - If you want to Specify User Access restrictions for this Snapshot (default selection), select this option
 - Then use the Add and Remove buttons to specify user access using Active Directory.

(Users with current access to the job default onto the list.)




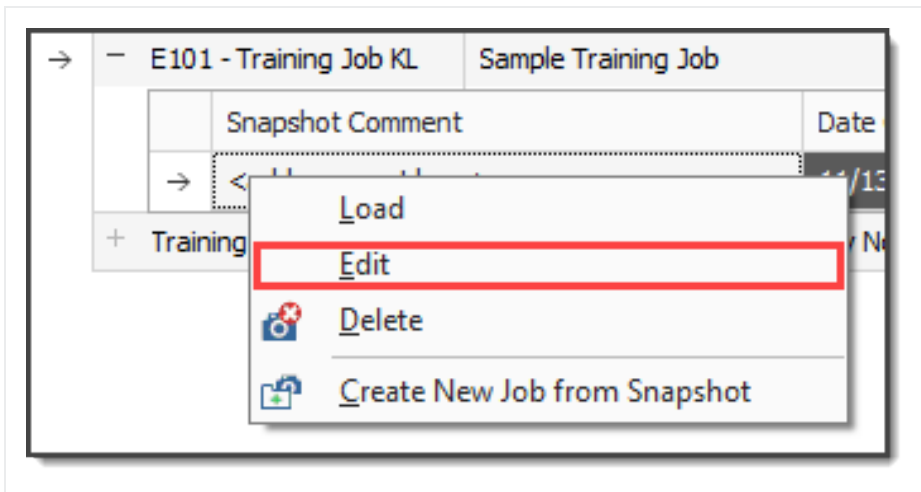
- 4. Click OK to create the snapshot.
- 5. A pop-up indicates when the snapshot has been created.



10.7.3 Editing a Job Snapshot

Step by Step — Edit a Job Snapshot


1. From the Snapshot Register, click the  icon next to the desired job to display snapshots.
2. Right-click on the individual snapshot you want to edit and select **Edit**.

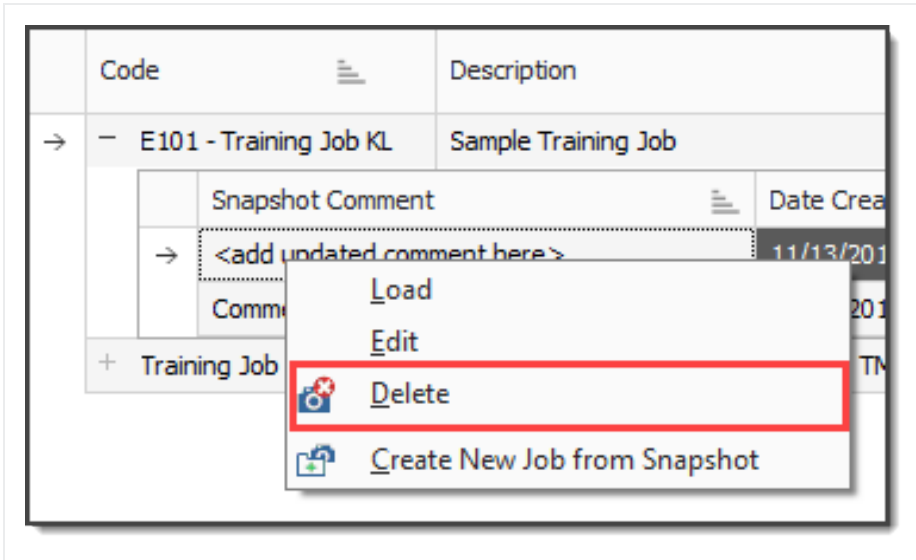


3. The same sort of dialog box opens up as when you created the Snapshot. In this case, from the Edit Job Snapshot [Job Code Here] dialog box, modify the Snapshot Comment and the User Access options as needed.
 - If you want to Include all Attachments that have been stored in the Job Folder with this Snapshot, select the check box. Otherwise, uncheck the box
 - If you want to Use Job's current User Access restrictions for this Snapshot, select this radio button
 - If you want to Remove User Access restrictions for this Snapshot and allow read-only access to all users, select this radio button
 - If you want to Specify User Access restrictions for this Snapshot (default selection), select this option
 - Then use the Add and Remove buttons to specify user access using Active Directory. (Users with current access to the job default onto the list.)
4. Click **OK** to update the snapshot.

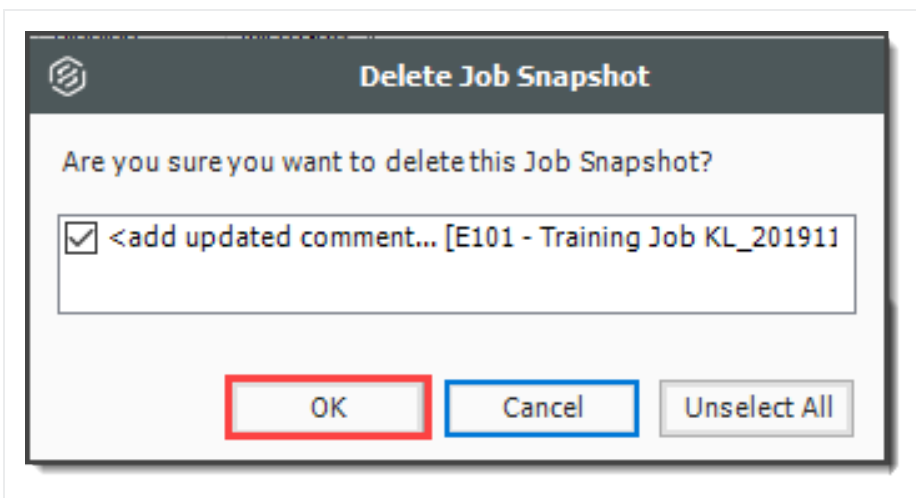
10.7.4 Deleting a Job Snapshot

Step by Step — Delete a Job Snapshot

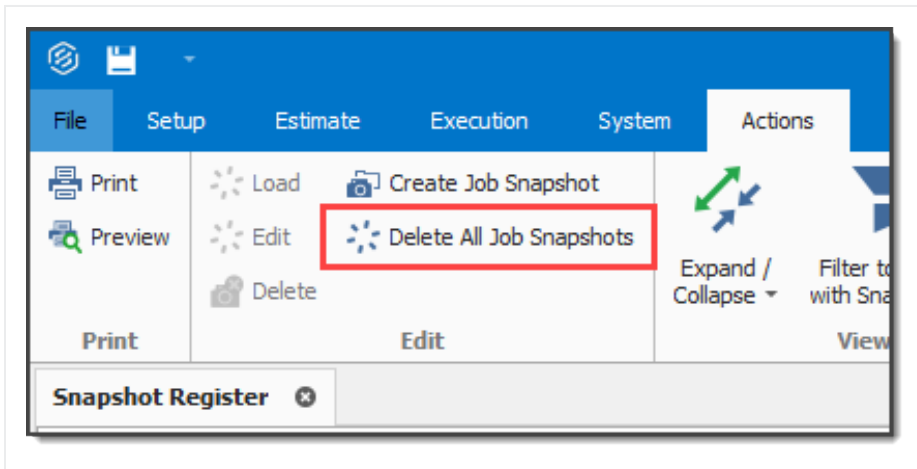
1. From the Snapshot Register, click the  icon next to the desired job to display snapshots.
2. Right-click on the individual snapshot you want to delete snapshots from and select **Delete**.



3. Click **OK**



Alternatively, you can delete all Job Snapshots by clicking **Delete All Job Snapshots** from the Actions tab.

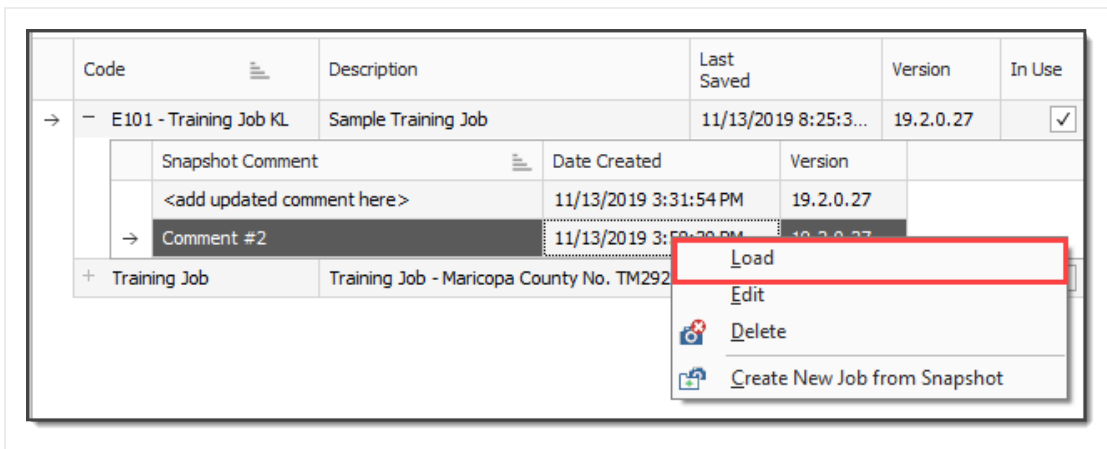


10.7.5 Loading a Job Snapshot

When you load an existing Snapshot, it loads into Estimate as any other job.

Step by Step — Load a Job Snapshot

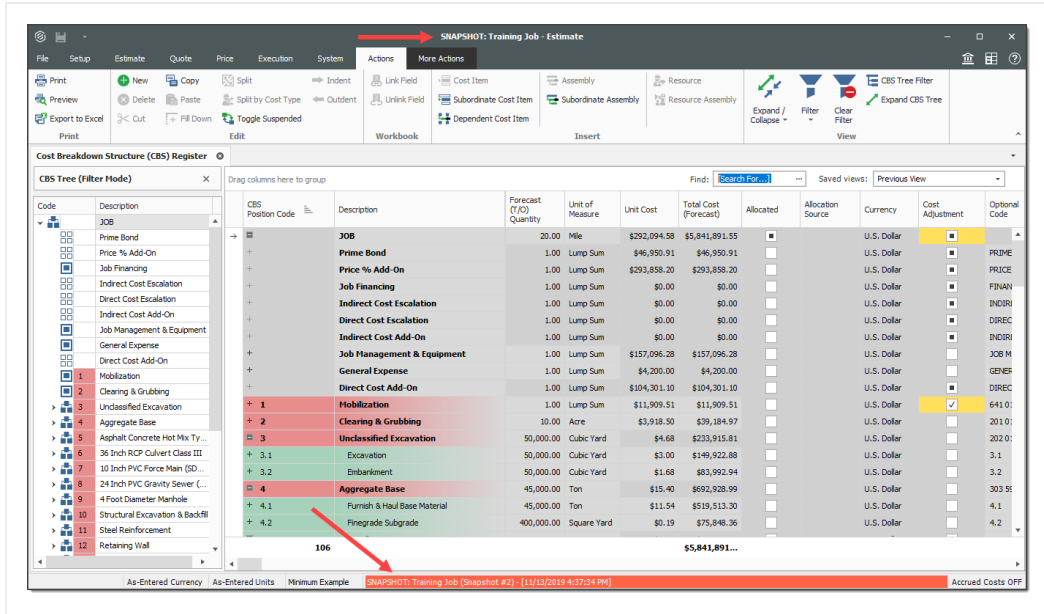
1. Click the File tab to open the Backstage View, then select **Snapshots**.
2. From the Snapshots form, select the **Snapshot Register** tab.
3. On the Snapshot Register, click the icon next to the desired job to display the list of snapshots.
4. Right-click on the individual snapshot you want to load and select **Load**.



To identify a snapshot in Estimate as a read-only snapshot:

- The job name is preceded by the label **SNAPSHOT:** centered on the top of the toolbar
- A red banner shows the specific snapshot information at the bottom of the screen

NOTE A snapshot can be modified, but it cannot be saved as it is read-only.



Exercise 10.1 — Data Reproduction

Now that you have learned how to utilize the Bid Wizard, complete the following steps using the Bid Wizard and Copy & Paste features.

1. Open the Bid Wizard by clicking the **Bid Wizard** icon from the **More Actions** tab.

2. Choose the **Create a new job** radio button.

3. Type **BW Exercise** (with your initials) in the **New Code** field and type **Exercise** in the Description field.

4. Choose **Select cost items**.

5. For all selections, choose **Copy from source job**.

6. Select the **Also copy all non-utilized resources** checkbox.

7. Select **Copy from source job** under Unassigned Cost Items and Markup, and the Copy Markup box is automatically selected.

8. Find and select **Training Job** and click **OK**.

9. Use the **Toggle Include All** button to exclude all selections.

10. Select the checkboxes to include **Cost Items 4-7**.

11. Click **Finish** to add the new job.

12. Select **Adjust the pay rules and shift arrangements to match the destination**.

13. Open the **CBS** to see the cost items that were brought in.

14. Open the **Infra Job Copy** with your initials that you created earlier in this lesson.

15. Copy **Cost items 8 and 9** and paste them into the BW Exercise job.

You should end up with the following results

CBS Position Code	Description	Optional Code	Forecast (T/O) Quantity	Unit of Measure
+	Indirect Cost Escalation	INDIRECT COST ESCAL...	1.00	Lump Sum
+	Direct Cost Escalation	DIRECT COST ESCALAT...	1.00	Lump Sum
+	Indirect Cost Add-On	INDIRECT COST ADD-ON	1.00	Lump Sum
+	Job Management & Equipment	JOB MANAGEMENT & E...	1.00	Lump Sum
+	General Expense	GENERAL EXPENSE	1.00	Lump Sum
+	Direct Cost Add-On	DIRECT COST ADD-ON	1.00	Lump Sum
[-] 1	Aggregate Base	303 5912	45,000.00	Ton
+ 1.1	Furnish & Haul Base Material	4.1	45,000.00	Ton
+ 1.2	Finegrade Subgrade	4.2	400,000.00	Square Yard
[-] 1.3	Install Aggregate Base	4.3	45,000.00	Ton
+ 1.3.1	Place Aggregate Base	4.3.1	45,000.00	Ton
+ 1.3.2	Blue Top Aggregate Base	4.3.2	400,000.00	Square Yard
[-] 2	Asphalt Concrete Hot Mix Type A	303 4263	35,000.00	Ton
+ 2.1	Furnish & Haul Hot Mix	5.1	35,000.00	Ton
+ 2.2	Install Hot Mix Type A	5.2	35,000.00	Ton
[-] 3	36 Inch RCP Culvert Class III	413(B) 0464	<u>1,024.00</u>	Linear Feet
+ 3.1	Furnish RCP Materials	6.1	1,024.00	Linear Feet
+ 3.2	Excavate RCP Trench	6.2	1,858.56	Cubic Yard
+ 3.3	Install RCP Pipe	6.3	1,024.00	Linear Feet
+ 3.4	Backfill RCP Pipe	6.4	1,587.20	Cubic Yard
[-] 4	10 Inch PVC Force Main (SDR21)	800 0220	12,000.00	Linear Feet
+ 4.1	Furnish 10 Inch PVC Materials	7.1	12,000.00	Linear Feet
+ 4.2	Excavate-Install-Backfill 10 Inch PVC	7.2	12,000.00	Linear Feet
[-] 5	24 Inch PVC Gravity Sewer (SDR35)	800 0330	3,000.00	Linear Feet
[-] 5.1	Excavate 24 Inch PVC	8.1	3,000.00	Linear Feet
+ 5.1.1	Excavate 24 Inch PVC 0-6 ft Depth	8.1.1	1,390.00	Cubic Yard
+ 5.1.2	Excavate 24 Inch PVC 6-10 ft Depth	8.1.2	3,610.00	Cubic Yard
+ 5.2	Furnish & Install 24 Inch PVC	8.2	3,000.00	Linear Feet
+ 5.3	Backfill 24 Inch PVC	8.3	4,520.00	Cubic Yard
[-] 6	4 Foot Diameter Manhole	800 0400	16.00	Each
+ 6.1	Furnish 4 ft Manhole Materials	9.1	16.00	Each
+ 6.2	Excavate-Install-Backfill Manhole	9.2	16.00	Each

Congratulations, you have completed this exercise!

Lesson 10 Review

1. From the New option on the Backstage View, which of the following options are available for creating a new job? (Select all that apply)
 - a. Scratch
 - b. Template
 - c. Import
 - d. Existing Job
 - e. Historic
 - f. Bid Wizard

2. Which of the following job reproduction options lets you pick and choose which cost items you want to import into your new job?
 - a. Template
 - b. Bid Wizard
 - c. Existing Job
 - d. Archive

3. Which of the following options allows you to add cost items from another project when working in the CBS Register?
 - a. Bid Wizard
 - b. CBS Bid Wizard
 - c. Template
 - d. Existing Job

Lesson 10 Summary

As a result of this lesson, you can:

- Create a job from an existing job or template
- Create a template

- Reproduce estimate data using the Bid Wizard
- Reproduce estimate data using copy/paste
- Add cost items to a job using the CBS Bid Wizard
- Utilize the Snapshot function

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LESSON 11 – EXCEL INTEGRATION

Lesson Duration: 20 Minutes

Lesson Objectives

After completing this lesson, you will be able to:

- Export data from InEight Estimate to Excel
- Link a field in InEight Estimate to Excel
- Update a linked InEight Estimate field with Excel data

Lesson Topics

11.1 EXPORT TO EXCEL

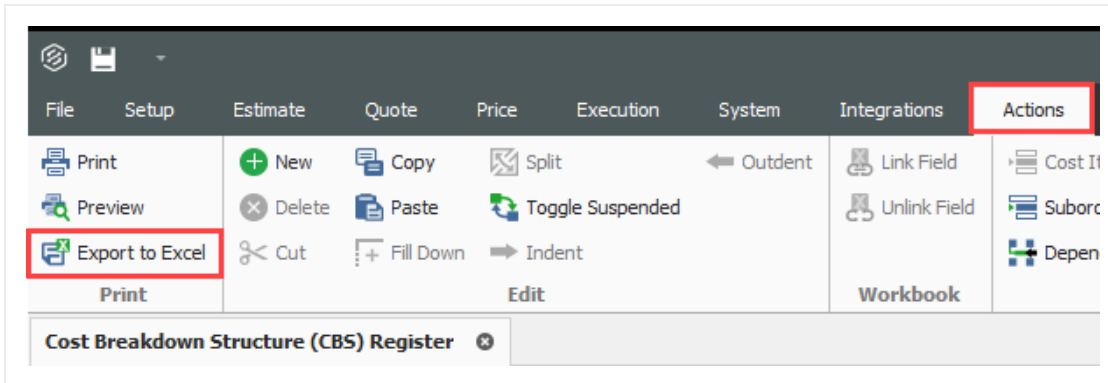
InEight Estimate's integration with Microsoft Excel includes a two-way integration that allows you to update register fields in InEight Estimate with data contained in an Excel workbook, and update Excel cells with data contained in a register column in InEight Estimate.

InEight Estimate includes a worksheet export that makes it easy to transfer data out of InEight Estimate register forms to Microsoft Excel spreadsheets. This feature makes it faster and easier to send data from an InEight Estimate register to a spreadsheet, analyze it, modify it, and customize it for any other uses.

The Export to Excel feature is available on all register forms in the system and allows you to export the data currently displayed on a register form to an Excel worksheet.

Step by Step — Export Data to an Excel Workbook

1. Open the **Training** Job and from the Estimate tab, open the **CBS Register**.
2. From the Actions tab, select **Export to Excel**.



3. On the Export spreadsheet to... dialog, browse to the location (folder) in your system where you want to save the workbook, enter **CBS Export** in the File name field, and click **Save**.
 - The workbook is saved to that location with the specified file name, and Excel automatically launches and displays the workbook


- Notice that the columns are formatted, with column headers and filtering turned on

CBS Position Code	Description	Forecast (T/O)	Unit of Measure	Unit Cost	Total Cost (Forecast)	Currency
	JOB	20.00	Mile	\$292,316.18	\$5,846,323.66	U.S. Dollar
	Prime Bond	1.00	Lump Sum	\$46,974.12	\$46,974.12	U.S. Dollar
	Price % Add-On	1.00	Lump Sum	\$294,067.09	\$294,067.09	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	\$104,301.10	\$104,301.10	U.S. Dollar
	Mobilization	1.00	Lump Sum	\$11,909.51	\$11,909.51	U.S. Dollar
	Clearing & Grubbing	10.00	Acre	\$3,918.50	\$39,184.97	U.S. Dollar
	Unclassified Excavation	50,000.00	Cubic Yard	\$4.68	\$233,915.81	U.S. Dollar
	Aggregate Base	45,000.00	Ton	\$15.40	\$692,928.99	U.S. Dollar
	Asphalt Concrete Hot Mix Type A	35,000.00	Ton	\$42.62	\$1,491,580.59	U.S. Dollar
5.1	Furnish & Haul Hot Mix	35,000.00	Ton	\$39.27	\$1,374,562.54	U.S. Dollar
5.2	Install Hot Mix Type A	35,000.00	Ton	\$3.34	\$117,018.05	U.S. Dollar
6	36 inch RCP Culvert Class III	1,024.00	Linear Feet	\$67.54	\$69,159.49	U.S. Dollar
6.1	Furnish RCP Materials	1,024.00	Linear Feet	\$33.48	\$34,286.70	U.S. Dollar
6.2	Excavate RCP Trench	1,858.56	Cubic Yard	\$4.51	\$8,379.59	U.S. Dollar
6.3	Install RCP Pipe	1,024.00	Linear Feet	\$11.74	\$12,017.60	U.S. Dollar

11.1.1 Cell Select

To copy and paste data in InEight Estimate or to Excel, you can use a feature called Cell Select. Walk through the following steps to learn how to copy specific fields in InEight Estimate to an Excel Spreadsheet.

Step by Step — Cell Select

1. Open the **Training Job** and from the Setup tab, open the **Resource Rate Register**.
2. Select the **Labor** tab.
3. Select **Print View for Summary** from your Saved Views drop-down menu.
4. From the top-right corner, select the **Cell Select**  icon, (next to the Help icon).

- This puts you in “cell-select” mode, so you can select cells to copy in the same way you would in Excel.
5. With the Cell Select icon active, highlight all information in the **Description, Utilization Count** and **Unit of Measure** columns for all Labor resources.

Resource Rate Register

All Labor Construction Equipment Rented Construction Equipment Installed Material Installed Equipment Supplies Unique

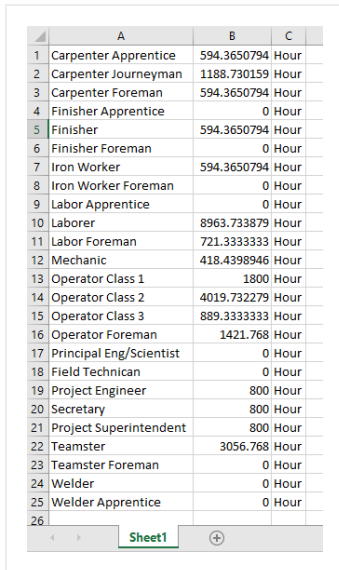
Drag columns here to group

Resource Code	Description	Utilization Count	Unit of Measure
+ LC1	Carpenter Apprentice	594.37	Hour
+ LC2	Carpenter Journeyman	1,188.73	Hour
+ LC3	Carpenter Foreman	594.37	Hour
+ LF1	Finisher Apprentice	0.00	Hour
+ LF2	Finisher	594.37	Hour
+ LF3	Finisher Foreman	0.00	Hour
+ LIW1	Iron Worker	594.37	Hour
+ LIW2	Iron Worker Foreman	0.00	Hour
+ LL1	Labor Apprentice	0.00	Hour
+ LL2	Laborer	8,963.73	Hour
+ LL3	Labor Foreman	721.33	Hour
+ LMECH	Mechanic	418.44	Hour
+ LO1	Operator Class 1	1,800.00	Hour
+ LO2	Operator Class 2	4,019.73	Hour
+ LO3	Operator Class 3	889.33	Hour
+ LO4	Operator Foreman	1,421.77	Hour
+ LREM 01	Principal Eng/Scientist	0.00	Hour
+ LREM 05	Field Technician	0.00	Hour
+ LSPE	Project Engineer	800.00	Hour
+ LSSEC	Secretary	800.00	Hour
+ LSSUPT	Project Superintendent	800.00	Hour
+ LT1	Teamster	3,056.77	Hour
+ LT2	Teamster Foreman	0.00	Hour
+ LWD	Welder	0.00	Hour
→ LWDA	Welder Apprentice	0.00	Hour
*			

6. Right click on the selection and select **Copy**.
7. Open an Excel spreadsheet, right click in the **A1** field and select **Paste Special**, choosing **CSV** as the Source.

8. Click **OK**.

- The fields you copied from InEight Estimate paste into the spreadsheet



	A	B	C
1	Carpenter Apprentice	594.3650794	Hour
2	Carpenter Journeyman	1188.730159	Hour
3	Carpenter Foreman	594.3650794	Hour
4	Finisher Apprentice	0	Hour
5	Finisher	594.3650794	Hour
6	Finisher Foreman	0	Hour
7	Iron Worker	594.3650794	Hour
8	Iron Worker Foreman	0	Hour
9	Labor Apprentice	0	Hour
10	Laborer	8963.733879	Hour
11	Labor Foreman	721.3333333	Hour
12	Mechanic	418.4398946	Hour
13	Operator Class 1	1800	Hour
14	Operator Class 2	4019.732279	Hour
15	Operator Class 3	889.3333333	Hour
16	Operator Foreman	1421.768	Hour
17	Principal Eng/Scientist	0	Hour
18	Field Technician	0	Hour
19	Project Engineer	800	Hour
20	Secretary	800	Hour
21	Project Superintendent	800	Hour
22	Teamster	3056.768	Hour
23	Teamster Foreman	0	Hour
24	Welder	0	Hour
25	Welder Apprentice	0	Hour
26			

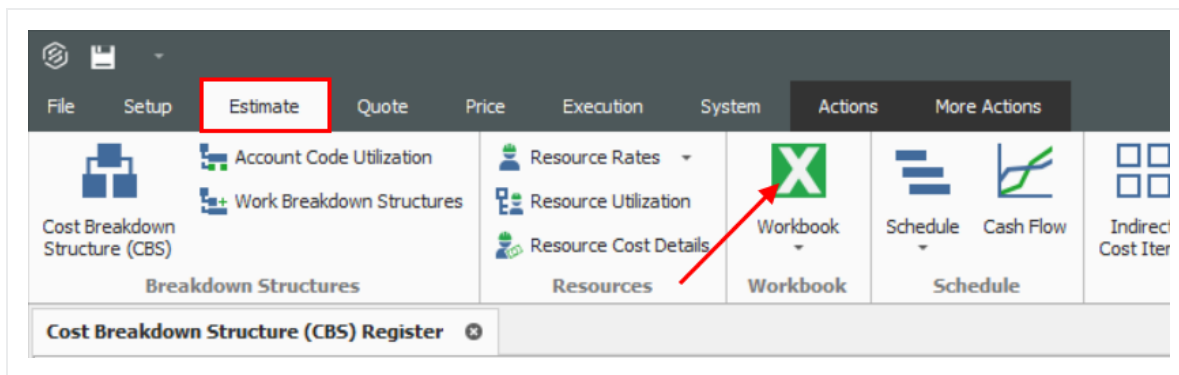
- To turn off the Cell Select, simply click the Cell Select Icon again and it deselected

11.2 LINKING TO EXCEL

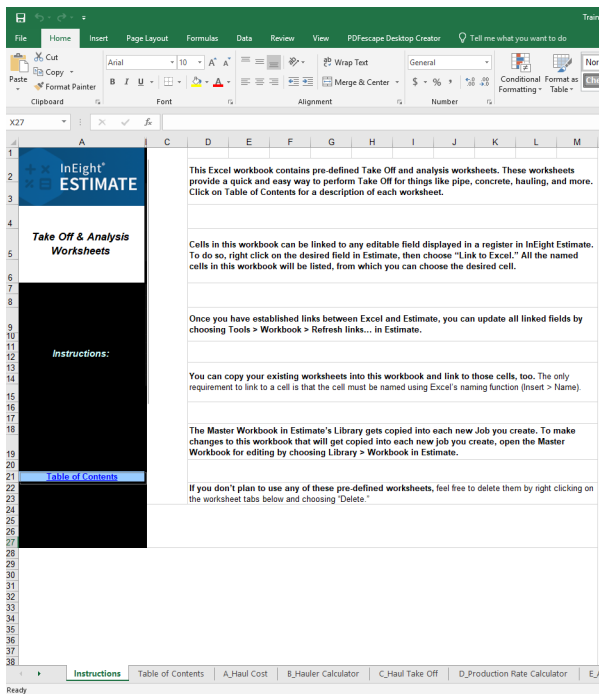
11.2.1 InEight Estimate Workbook

Every job has its own Excel workbook embedded within it for doing side calculations and take-offs. You can link your calculations to fields in InEight Estimate to automatically update them into your estimate. When you create a new job from scratch, the Library Master Workbook is copied to create a new embedded Excel workbook for the job.

The workbook comes with some pre-defined take-off and analysis worksheets, or you can create your own. Simply open the appropriate worksheet, plug in your values, and Excel will calculate your results. To open your job's workbook, select the Estimate tab, then click on the Workbook icon under the Workbook section.



- The embedded Excel workbook for the job opens.



11.2.2 Linking to and from Excel

InEight Estimate's linking capabilities with Excel can be done in one of two ways. A field in InEight Estimate can be populated with a value from Excel, or a cell in Excel can be populated with the data from an InEight Estimate field. This two-way linking functionality allows you to make quick work of complex chores to perform spreadsheet-based take-off or formula-driven analysis.

6	36 Inch RCP Culvert Class III	413(B) 0464	1,024.00	Linear Feet
+ 6.1	Furnish RCP Materials	6.1	1,024.00	Linear Feet
+ 6.2	Excavate RCP Trench	6.2	1,858.56	Cubic Yard

The following example walks through how to link a simple take-off calculation into InEight Estimate from Excel. It is a take-off to determine the size of a concrete foundation.

Step by Step — Link Estimate to Excel

1. Open the **Training** Job and from the Estimate tab, open the **CBS Register**.
2. For this example, create a new cost item in the blank row at the bottom of the CBS register and name it **Concrete Foundation**.

Concrete Foundation			1.00	CY
----------------------------	--	--	------	----

3. Open the job’s Excel workbook from the Estimate tab, by selecting the Workbook icon.
4. In the workbook, create a new worksheet named **Concrete Take-off** and enter the following fields:

	A	B	C	D	E	F	G
1	Concrete Take-off						
2							
3	Length	10	yards				
4	Width	10	yards				
5	Height	0.5	yards				
6							
7							
8							
9							
10							
11							
12							

Instructions | Table of Contents | **Concrete Take-Off**

5. Create a new row to calculate the total cubic yards by factoring the length, width, and height quantities.

	A	B	C
1	Concrete Take-off		
2			
3	Length	10 yards	
4	Width	10 yards	
5	Height	0.5 yards	
6	Volume	=sum(B3*B4*B5)	
7			

- Your Volume Total should be 50 cubic yards

	A	B	C
1	Concrete Take-off		
2			
3	Length	10 yards	
4	Width	10 yards	
5	Height	0.5 yards	
6	Volume	50 CY	
7			


- InEight Estimate will only link to named fields in Excel. Click in the field you want to name (B6), then click in the Field Name window and type **Volume**.

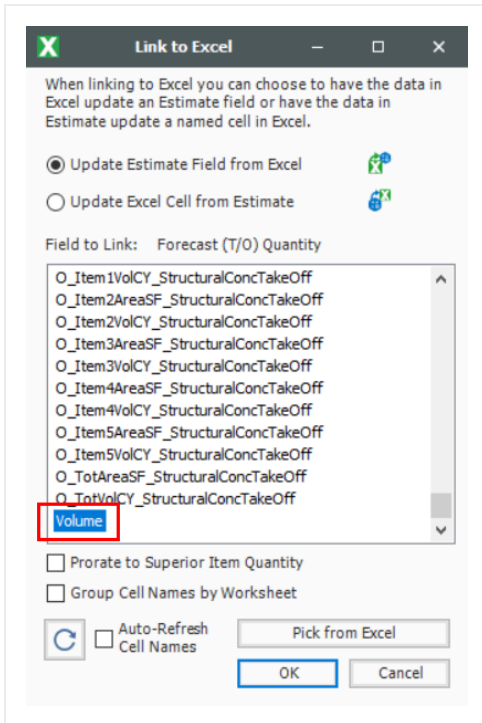
	A	B	C
1	Concrete Take-off		
2			
3	Length	10 yards	
4	Width	10 yards	
5	Height	0.5 yards	
6	Volume	50 CY	
7			

- Go back to the CBS Register and right click on the Concrete Foundation cost item **Forecast (T/O) Quantity** field.
- From the resulting right click menu, select **Link this field to Excel**.
 - You can also link the field by selecting the field and then selecting Link Field from the Actions tab

The screenshot shows the 'Training Job - Estimate' interface. The 'Integrations' tab is active, with 'Link Field' highlighted in red. Below the menu, a table displays cost items with columns for Optional Code, Forecast (T/O) Quantity, Unit of Measure, Unit Cost, and Total Cost (Forecast). A context menu is open over the table, with 'Link this field to Excel' highlighted in red.

Optional Code	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)
06420	1.00	Lump Sum	\$2,100.00	\$2,100.00
08210	1.00	Lump Sum	\$1,000.00	\$1,000.00
09640	1.00	Lump Sum	\$1,800.00	\$1,800.00
12510	1.00			
15300	1.00			
16510	1.00			
1500 0100	1,000.00			
1500 0200	200.00			
1600 0230	1,000.00			
CO1	1.00			
UNASSIGNED DIRECT C...	1.00			
UNASSIGNED	1.00			
UNASSIGNED	1.00			
UNASSIGNED	1.00			
UNASSIGNED	1.00			
the Water	1.00			
	1.00			
	1.00			
	1.00			

9. On the Link to Excel dialog, select the **Update InEight Estimate field from Excel** radio button.
10. In the Field to link window, select **Volume** (you may need to click the Refresh  button for the field name to display).



11. Click **OK**.

- The Forecast Quantity field for Concrete now is linked to the Volume field in Excel and populates with the take-off quantity (50)

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure
+ 26	Concrete Foundation	50.00	CY

11.2.3 Update Links

When data in InEight Estimate or Excel changes, you can quickly update all links, in just the currently active job or in all open jobs. Simply select one of the following options from the Workbook dropdown list on the Estimate tab.

The screenshot shows a software interface with a top navigation bar containing tabs: Estimate, Quote, Price, Execution, System, Actions, and More Actions. Below the navigation bar is a toolbar with icons for Account Code Utilization, Work Breakdown Structures, Resource Rates, Resource Utilization, Resource Cost Details, Workbook, Schedule, Cash Flow, and Indirect Cost Items. A dropdown menu is open for the 'Workbook' icon, listing the following options:

- Open Job Workbook
- Update Current Job From Workbook
- Update All Open Jobs From Workbook
- Update Workbook From Current Job
- Update Workbooks From All Open Jobs
- Delete Broken Links in All Open Jobs

Below the menu, a table is partially visible with the following content:

de	Description	Option Code
	JOB	
	Prime Bond	PRIME
	Price % Add-On	PRICE % ADD-ON

Lesson 11 Review

1. The Export to Excel feature is available on all register forms in the system and allows you to export the data currently displayed on a register form to an Excel worksheet.
 - a. True
 - b. False

2. In order to link an Excel field to InEight Estimate, the Excel field must be:
 - a. Named
 - b. Highlighted
 - c. Tagged
 - d. Selected

Lesson 11 Summary

As a result of this lesson, you can:

- Export data from InEight Estimate to Excel
- Link a field in InEight Estimate to Excel
- Update a linked InEight Estimate field with Excel data

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LESSON 12 – SCHEDULE INTEGRATION

Lesson Duration: 45 minutes

Lesson Objectives

After completing this lesson, you will be able to:

- Set up scheduling options
- Update schedule from InEight Estimate
- Update InEight Estimate from schedule
- Manage changes between estimate and schedule

Lesson Topics

12.1 PRIMAVERA

12.1.1 Scheduling Options

Prior to sending information from InEight Estimate to Primavera, you need to make sure the proper settings are in place.

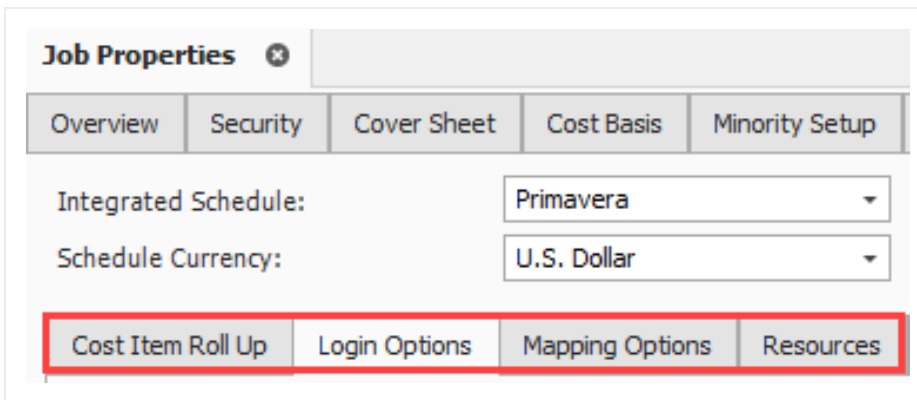
12.1.1.1 Job Properties Schedule Tab

Primavera scheduling options are configured on the **Setup > Job Properties > Schedule** tab.

The screenshot shows the 'Job Properties' window with the 'Schedule' tab selected. The 'Integrated Schedule' dropdown is set to 'Primavera', and the 'Always use Plug Days when updating Estimate from the schedule' checkbox is unchecked. The 'Schedule Currency' is set to 'U.S. Dollar'. Below these settings, there are sub-tabs for 'Cost Item Roll Up', 'Login Options', 'Mapping Options', 'Resources', 'Expense Costs', 'Actuals', 'Tags', and 'Activity Calendars'. The 'Automatically calculate Plug Days when rolling up cost items for scheduling purposes' checkbox is unchecked, and the 'Longest scheduled days among all rolled up cost items' radio button is selected. A note explains 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. A 'Recalculate Plug Days' button is also visible.

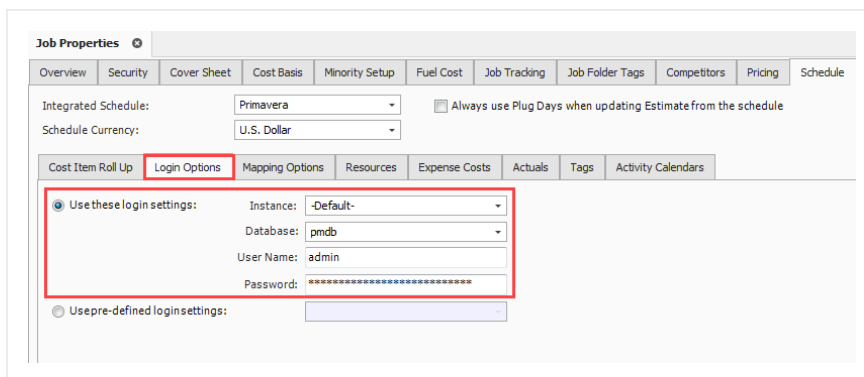
- At the top of the Schedule tab, the Integrated Schedule must be set to **Primavera**
- As a default, the **Always use Plug Days when updating InEight Estimate from the schedule** checkbox is not selected (on a job by job basis, this box can be checked later for jobs in which an estimator does not want updates from Primavera to change the duration and therefore the cost of your cost items in InEight Estimate)
- On the Schedule tab, there are several sub-tabs that need to be set up correctly to produce

correct data behavior and ensure the correct passing of data to Primavera



Step by Step — Login Options Tab

1. On the Schedule > Login Options tab of Job Properties, select the **Use these login settings** radio button.
 - If pre-defined login settings were required, the Use pre-defined login settings radio button would be selected instead
 - The Instance will remain set to **-Default-**
 - Database selection will be **pmdb** during training.
2. Type your user name in the User Name field.
3. Type your password into the Password field.
 - You will have your own login settings specific to your company



12.1.1.2 Mapping Options Tab

The Mapping Options tab contains options critical to downstream applications. It will have the following settings selected by default:

1. The **CBS Position Code** is selected as the field to populate the Primavera WBS Code and Activity ID fields.
2. The **Manage the Primavera WBS structure in InEight Estimate...** radio button is selected for the initial push from InEight Estimate to P6.
 - This means the WBS structure in Primavera will be controlled by the structure of superior and terminal cost items in InEight Estimate.
 - Selecting the other option would cause the WBS structure to be controlled in Primavera. Only terminal cost items would be sent from InEight Estimate to Primavera and all hierarchal structure (WBS Elements) would be created in Primavera manually
 - This option can be changed later, on a job-by-job basis.
3. The **Update the Project's Planned Start Date in Primavera from the Forecast Start Date** option is checked.
 - This will automatically pull the Forecast Start Date from the Job Properties > Cover Sheet tab to become the Planned Start Date in Primavera.

NOTE

You should double-check to make sure the right Start Date is defined on the Job Properties > Cover Sheet tab.

12.1.1.3 Resources Tab

The Resources tab dictates how resources are mapped between InEight Estimate and P6.

Section		Name
1	Update Primavera Resources from Estimate	<p>Provides options for sending InEight Estimate resources to Primavera.</p> <ul style="list-style-type: none"> • Typically, you would select the Update scheduled resources only option to send only resources that are employed on cost items • The Update all of this job's resources option updates Primavera with all of the resources in your project's Resource Rate Register
2	Map Resource Types to Primavera	Specify whether your resources will import into Primavera as Resources or Roles.
3	Update Primavera Budgeted Units when using Plug Days	Allows you to specify how to handle Budgeted Units for items that use Plug Days.
4	Update Primavera Cost Accounts from Estimate Account Codes	Checking this box causes assigned account codes to import into Primavera as Cost Accounts.
5	Update Price/Unit on Primavera Resource Assignments	Checking the boxes in this section will cause the Charge Rate costs of your resources to import into Primavera along with your resources.

12.1.1.4 Overview – Resources Tab

The screenshot shows the 'Resources' tab in a software interface. The 'Resources' tab is highlighted with a red border. The interface contains several sections with options and checkboxes, some of which are highlighted with red boxes and numbered callouts:

- 1**: A red box highlights the radio button option 'Update scheduled resources only' under the section 'Update Primavera Resources from Estimate:'. A callout bubble with the number '1' is next to it.
- 2**: A callout bubble with the number '2' is positioned below the 'Update Primavera Resources from Estimate:' section.
- 3**: A red box highlights the radio button option 'Adjust Budgeted Units to match Plug Duration' under the section 'Update Primavera Budgeted Units when using Plug Days:'. A callout bubble with the number '3' is next to it.
- 4**: A red box highlights the checkbox option 'Update Primavera Cost Accounts on Resource Assignments' under the section 'Update Primavera Cost Accounts from Estimate Account Codes:'. A callout bubble with the number '4' is next to it.
- 5**: A red box highlights the 'Update Price / Unit on Primavera Resource Assignments:' section, which contains several checked checkboxes: Labor, Construction Equipment, Rented Construction Equipment, Installed Material, Installed Equipment, Supplies, and Unique. A callout bubble with the number '5' is next to it.

Other sections visible include 'Map Resource Types to Primavera:' with dropdown menus for Labor, Construction Equipment, Rented Construction Equipment, Installed Material, Installed Equipment, Supplies, and Unique, all set to 'Resource'.

12.1.1.5 Expense Costs Tab

The Expense Costs tab is useful for bringing costs in from InEight Estimate that are not connected to resources, for example, your plugged and/or quoted cost items. This tab is optional, and it is not required to make selections here.

12.1.2 Schedule Cost Items

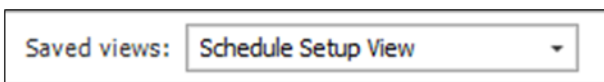
Before you can integrate with Primavera, your cost items need to be marked as Scheduled in InEight Estimate. This is done on the Cost Breakdown Structure (CBS) Register. From your Saved Views drop-down list in the CBS, the Schedule Setup View displays all of your schedule-related columns. There are a couple to keep in mind when you schedule your items:

- **Scheduled:** This column tells you which of your items are selected to be included in your Primavera schedule
- **Roll Up Schedule:** This column lets you check a box to roll up your estimate to the selected level when it imports into Primavera

The following steps walk you through scheduling your cost items.

Step by Step — Schedule a Cost Item in InEight Estimate

1. In the **Training Job**, from the Estimate tab, select **Cost Breakdown Structure**.
2. In the Saved Views drop-down list, select **Schedule Setup View**.



- In the Scheduled column, you can select the checkbox for each cost item that you want to schedule
 - If a cost item has subordinate cost items below it, you will only be able to check the superior cost item, which will automatically schedule the subordinate cost items along with it
3. Select the **Mobilization, Clearing & Grubbing, and Unclassified Excavation** cost items, then press **Tab**.

CBS Position Code	Description	Scheduled	Roll Up Schedule
[-]	JOB	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+	Prime Bond	<input type="checkbox"/>	<input type="checkbox"/>
+	Price % Add-On	<input type="checkbox"/>	<input type="checkbox"/>
+	Job Financing	<input type="checkbox"/>	<input type="checkbox"/>
+	Indirect Cost Escalation	<input type="checkbox"/>	<input type="checkbox"/>
+	Direct Cost Escalation	<input type="checkbox"/>	<input type="checkbox"/>
+	Indirect Cost Add-On	<input type="checkbox"/>	<input type="checkbox"/>
+	Job Management & Equipment	<input type="checkbox"/>	<input type="checkbox"/>
+	General Expense	<input type="checkbox"/>	<input type="checkbox"/>
+	Direct Cost Add-On	<input type="checkbox"/>	<input type="checkbox"/>
+ 1	Mobilization	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 2	Clearing & Grubbing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
[-] 3	Unclassified Excavation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 3.1	Excavation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 3.2	Embankment	<input checked="" type="checkbox"/>	<input type="checkbox"/>
[-] 4	Aggregate Base	<input type="checkbox"/>	<input type="checkbox"/>
+ 4.1	Furnish & Haul Base Material	<input type="checkbox"/>	<input type="checkbox"/>
+ 4.2	Finegrade Subgrade	<input type="checkbox"/>	<input type="checkbox"/>

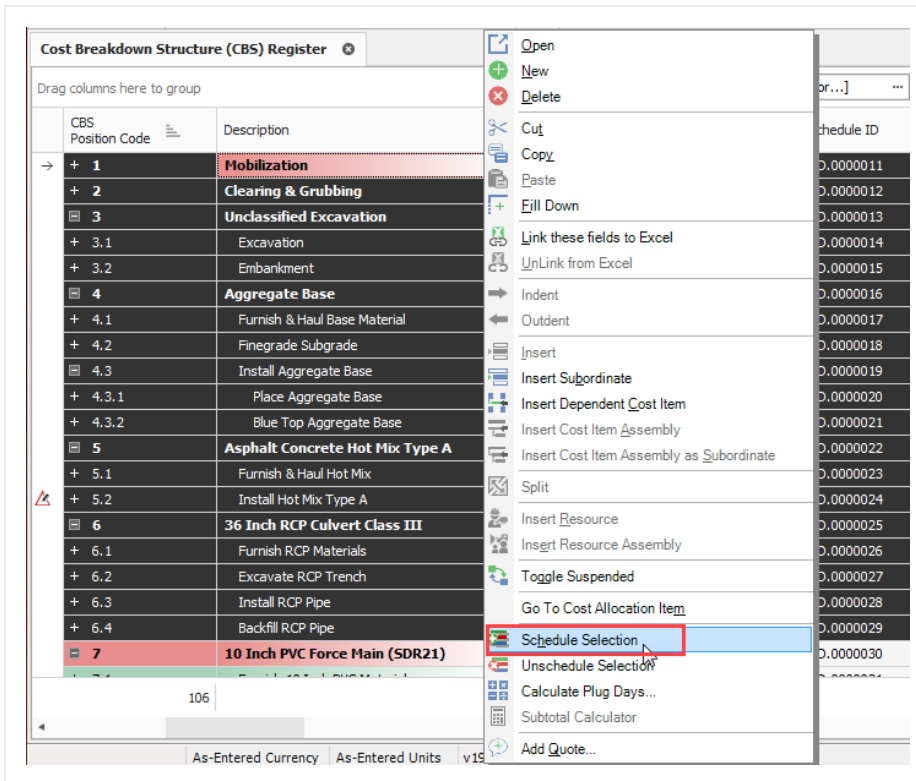
Step by Step — Schedule a Group of Cost Items in InEight Estimate

1. In the **Training Job**, from the Estimate tab, select **Cost Breakdown Structure**.
2. From the Saved Views drop-down list, select **Schedule Setup View**.
 - To schedule multiple cost items, you can highlight the row for each cost item that you want to schedule, using the Shift and Ctrl keys to select multiple rows.

3. Select additional cost items **4-Aggregate base**, **5- Asphalt Concrete Hot Mix**, and **6- 36-inch RCP Culvert Class**.

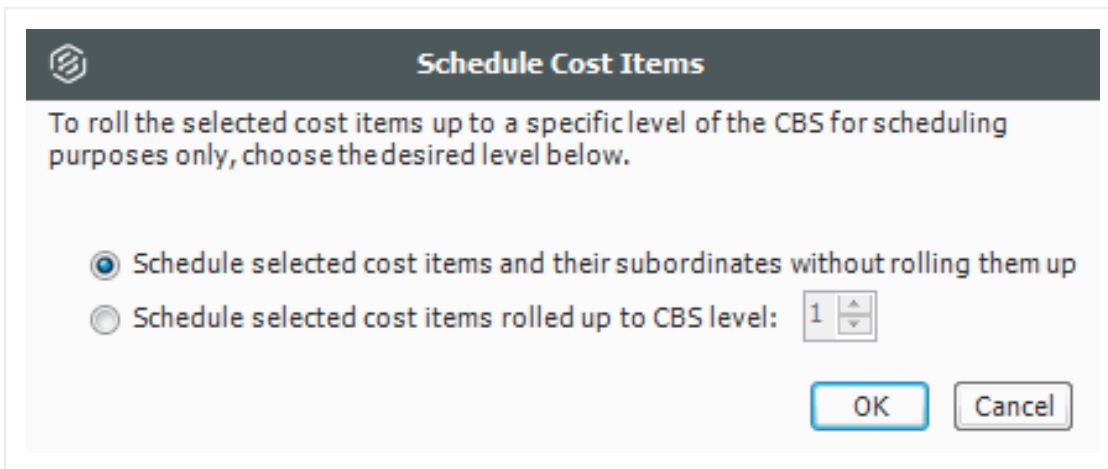
TIP To schedule all cost items, highlight the **JOB** row.

4. Right click on the selected rows and select **Schedule Selection**.



- On the Schedule Cost Items dialog, you can select whether or not you want to roll up the selected cost items to a specific level of the CBS for scheduling purposes

5. Select **Schedule selected cost items and their subordinates without rolling them up**, then click **OK**.



- Your scheduled cost items will import into Primavera the next time you update Primavera from InEight Estimate.

12.1.2.6 Roll Up Schedule

For cost item 3 – Unclassified Excavation, your scheduler does not need all of your estimate details and wants to roll up your cost items to a higher level when they import into the Primavera schedule.

Follow the steps below to learn how to roll up your cost items for the schedule.

Step by Step — Roll Up Schedule

1. In the **Training Job**, from the Estimate tab select **Cost Breakdown Structure**.
2. From the Saved Views drop-down list, select **Schedule Setup View**.
 - Review your cost items to decide which cost items need to be rolled up
3. Select the **Roll Up Schedule** checkbox on the Unclassified Excavation cost item.

CBS Position Code	Description	Scheduled	Roll Up Schedule
+ 1	Mobilization	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 2	Clearing & Grubbing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- 3	Unclassified Excavation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
+ 3.1	Excavation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 3.2	Embankment	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- 4	Aggregate Base	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 4.1	Furnish & Haul Base Material	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 4.2	Finegrade Subgrade	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- 4.3	Install Aggregate Base	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 4.3.1	Place Aggregate Base	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 4.3.2	Blue Top Aggregate Base	<input checked="" type="checkbox"/>	<input type="checkbox"/>

12.1.3 Update Primavera from InEight Estimate

Now that you have set up your Primavera options in Job Properties and scheduled your cost items in the CBS, you are ready to send your project information to Primavera.

When you first update Primavera from InEight Estimate, Primavera will create a new project automatically and load it with the following information from InEight Estimate:

Data Sent from InEight Estimate to Primavera		
Data Type	InEight Estimate	Primavera
Project Data	Job Code	Project ID
	Job Description	Project Name
Activity Data	CBS Position Code//Schedule ID	WBS Code / Activity ID
	Description	WBS Element / Activity Name
	Hours	Planned Duration (Hours)
	Shift and Rate Rules	Activity Calendar
	Cost Item Tags and UDFs	Activity Codes or UDFs
	Cost Category Total Cost	Cost Category (custom text columns)

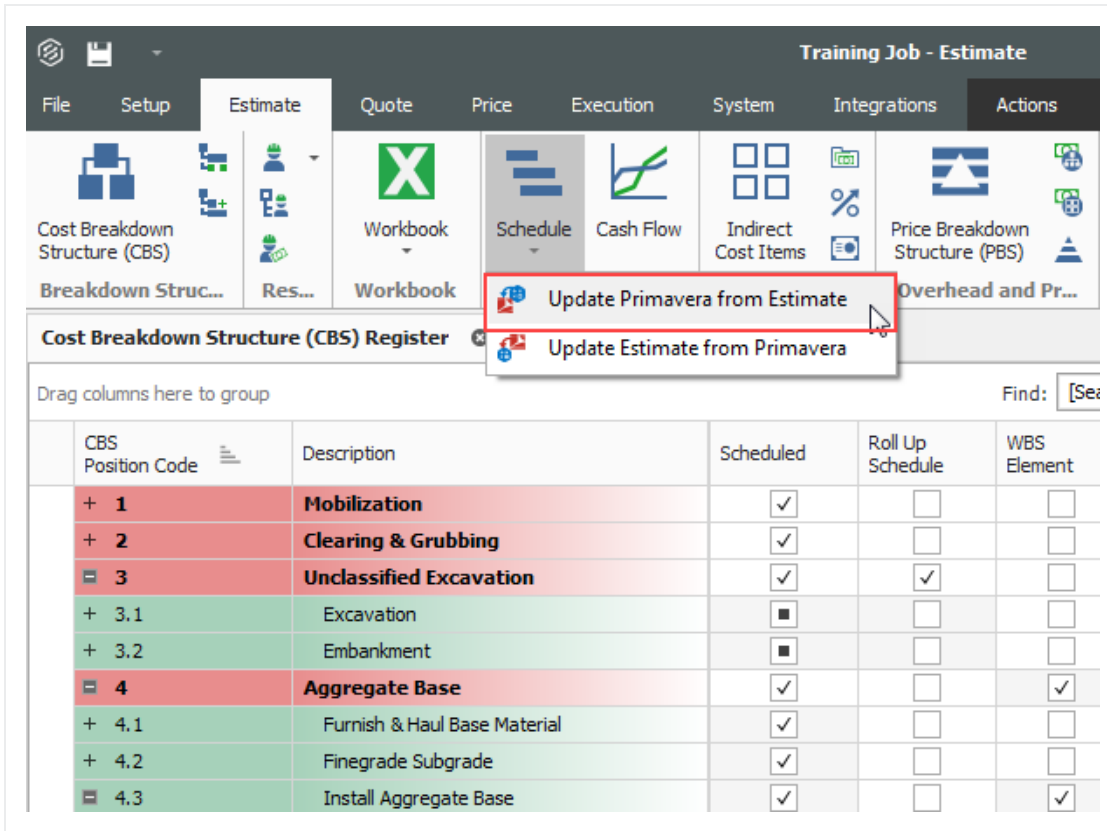
Data Sent from InEight Estimate to Primavera		
Resource Data	Resource Code	Resource ID
	Resource Description	Resource Name
Cost Data	Resource Cost / Unit	Resource Price / Unit
	Cost Category Total Cost	Expense Category Budgeted Cost

NOTE Tags, resource data, and cost data only update in Primavera if selected in the Job Properties > Schedule settings.

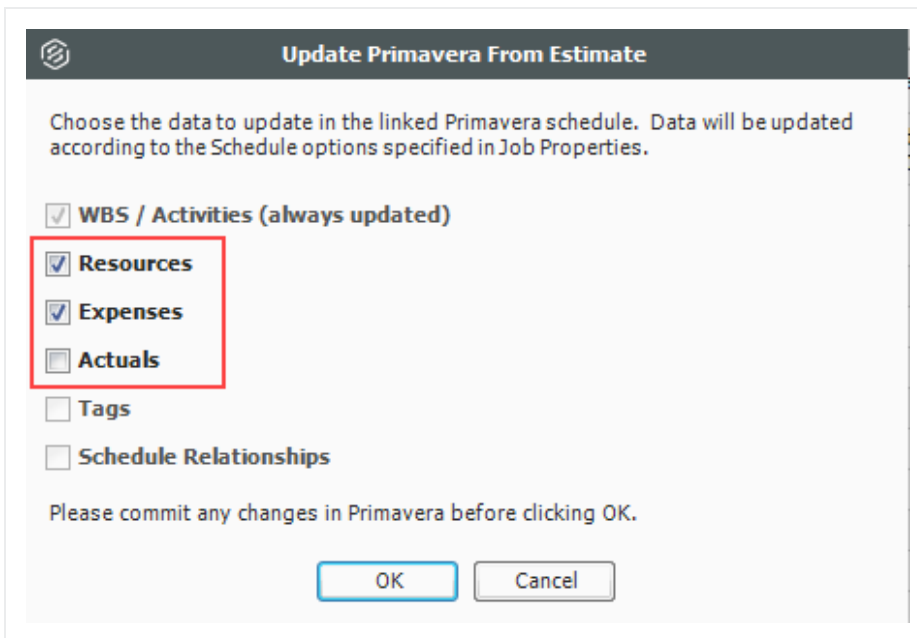
The following steps walk you through updating Primavera from InEight Estimate to create a new schedule.

Step by Step — Update Primavera from InEight Estimate

1. From the Estimate tab, select **Schedule>Update Primavera from InEight Estimate**.

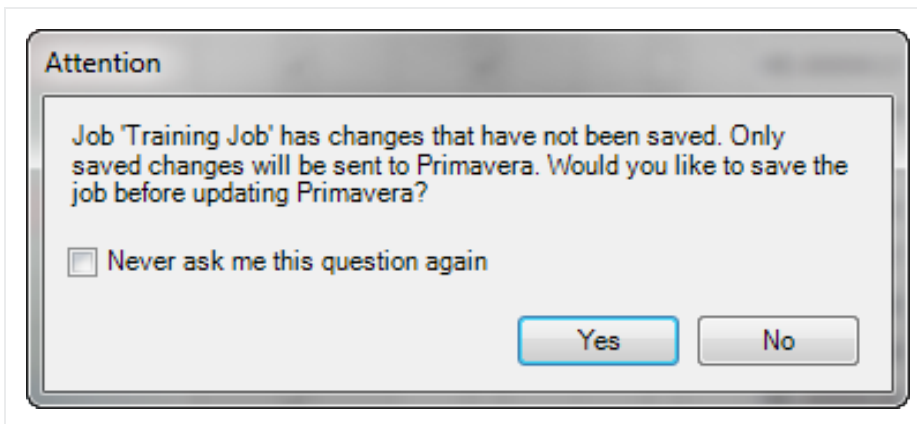


- The Update Primavera From Estimate dialog prompts you to indicate what data to update to Primavera
2. Make sure **Resources** and **Expenses** are checked. Deselect **Actuals** (For Job Tracking purposes) if auto selected, then click **OK**.

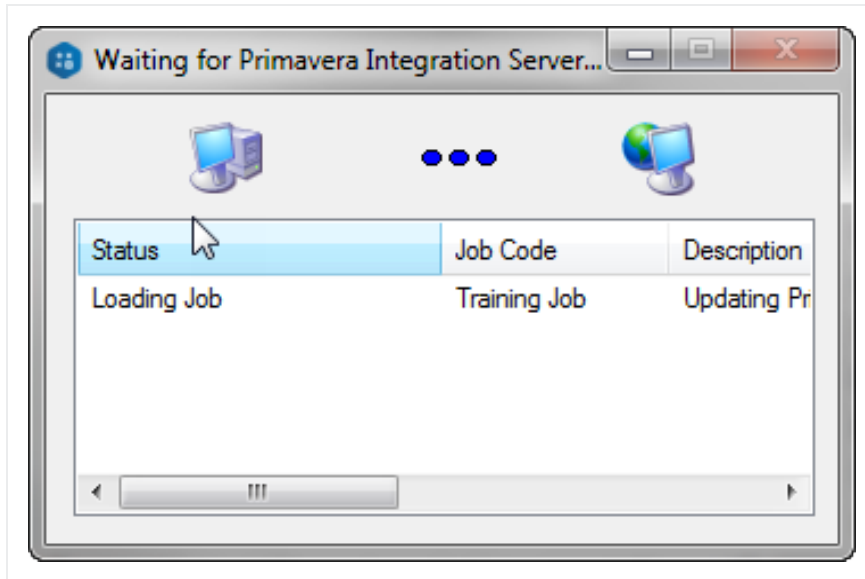


- An Attention prompt appears, letting you know that the job has not been saved.

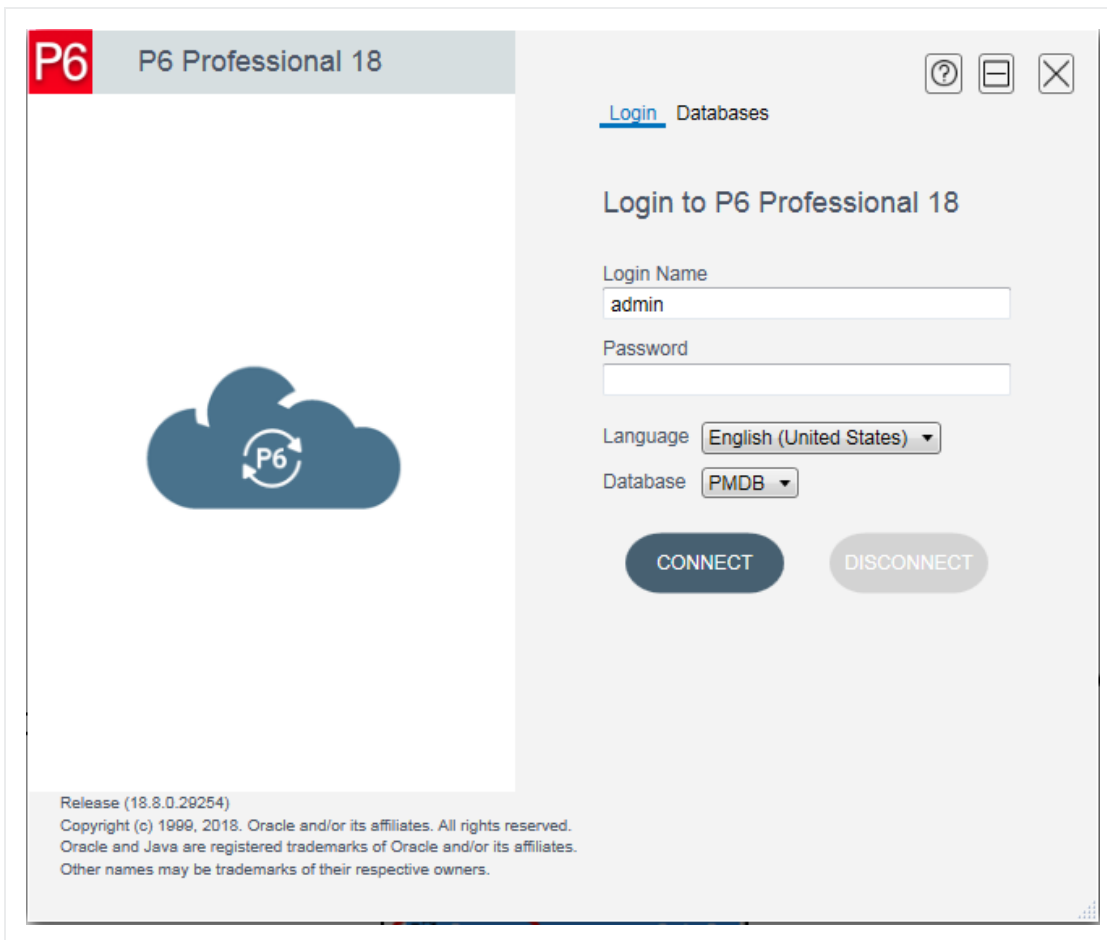
3. Click **Yes** to save the job before updating Primavera.



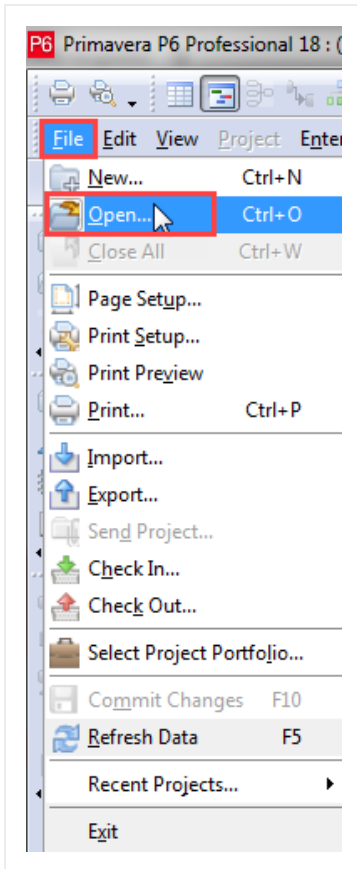
- A window appears that shows the progress of the data sync between InEight Estimate and Primavera. Depending on the size of the job, this can take several minutes



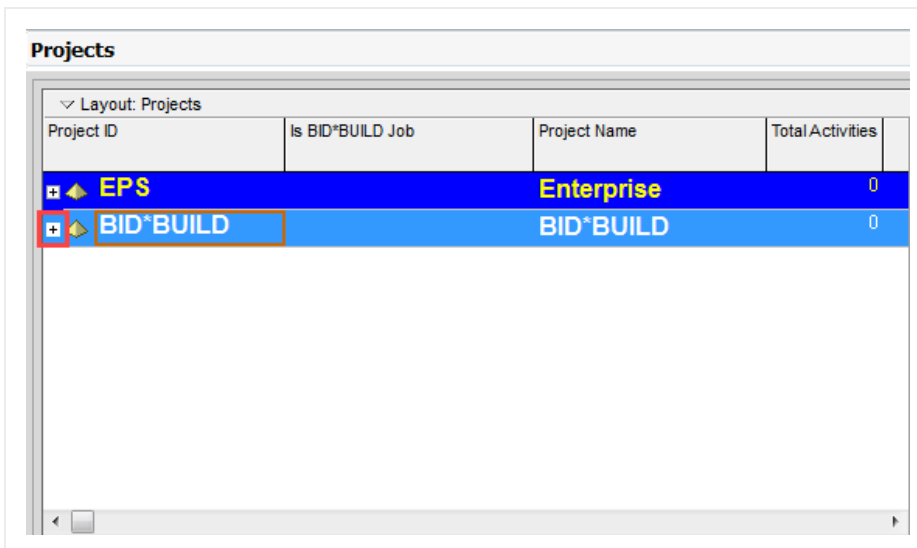
- When the window disappears, the update is complete
4. Open Primavera P6 (Project Management) client.
 5. Log in to Primavera, using the same Username and Password that was entered on the Schedule > Login Options tab in InEight Estimate Job Properties.



6. In Primavera, open the project.



7. In the Open Project dialog, expand the **BID*BUILD** folder.

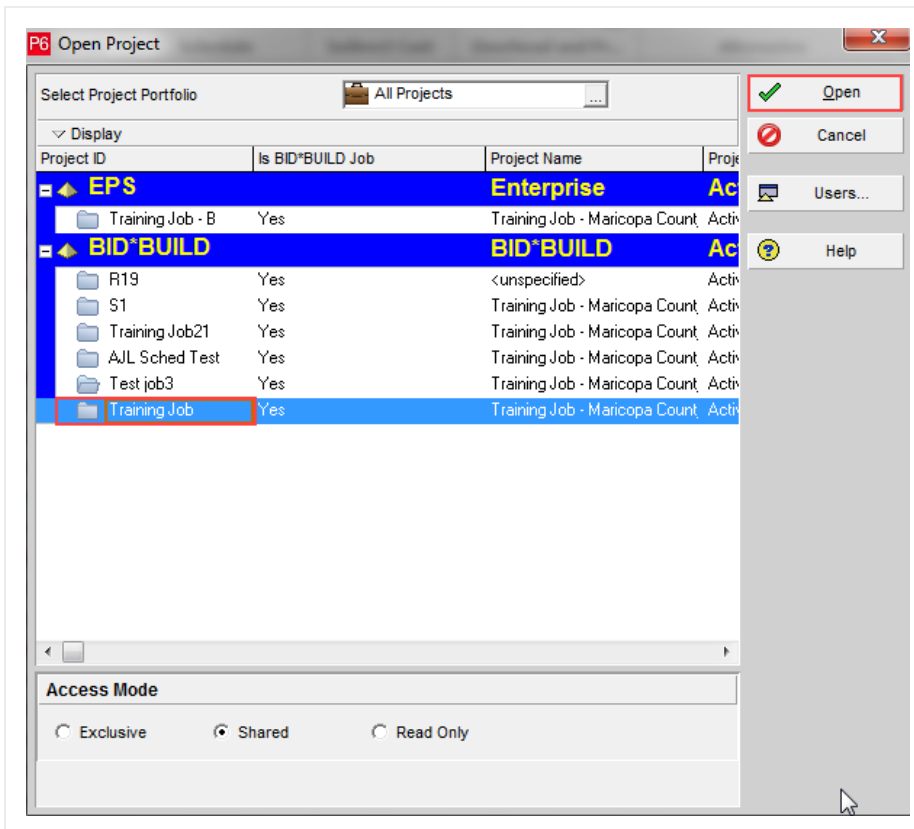


NOTE

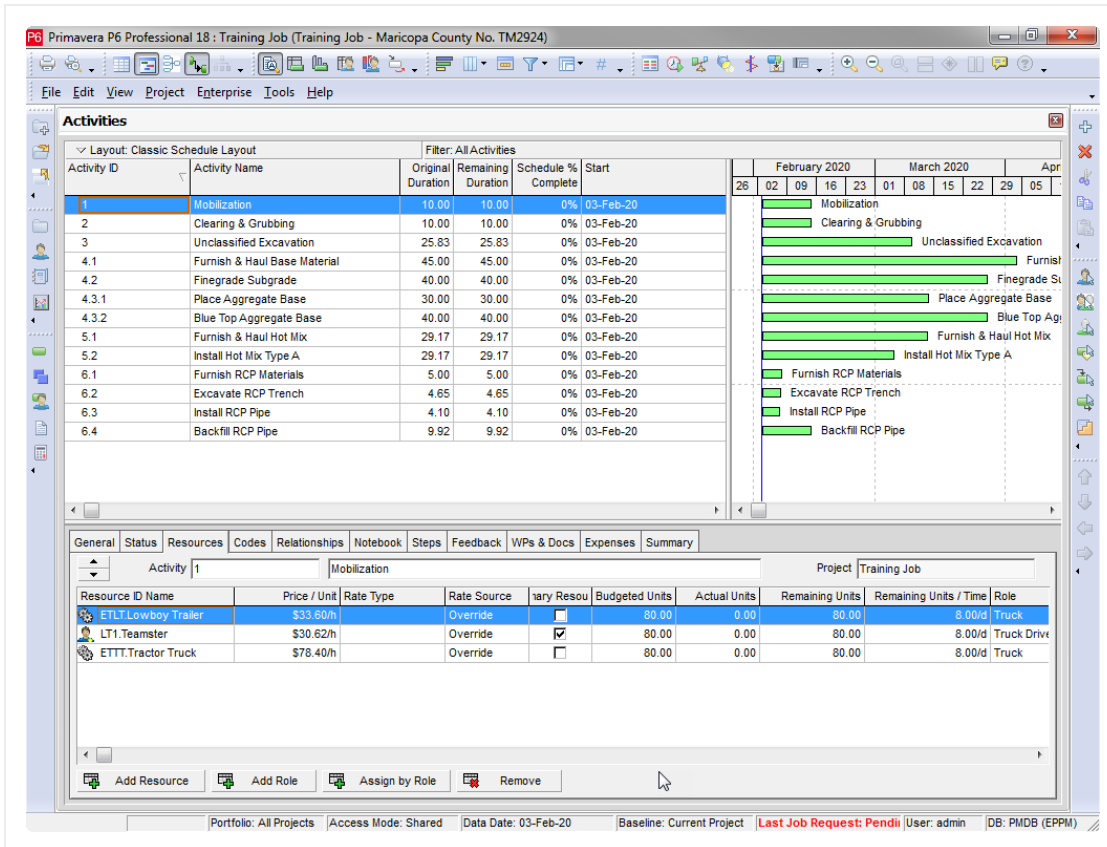
All projects created from InEight Estimate are created in the BID*BUILD folder by default.

- Your available projects are sorted by their job names.

8. Select the **Training Job** (with your initials) so that it is highlighted, and then select **Open**.



- The WBS Layout displays for the project. You can see the breakdown structure imported from InEight Estimate with durations, rolled up as specified by the Roll Up Schedule option in InEight Estimate
 - Initially, the start date for your activities is the start date defined on the Job Properties > Cover Sheet tab (these will change as activity relationships are defined)
9. Select the **Resources** tab to see the resources that imported for each activity, with their associated costs.



12.1.4 Update InEight Estimate from Primavera

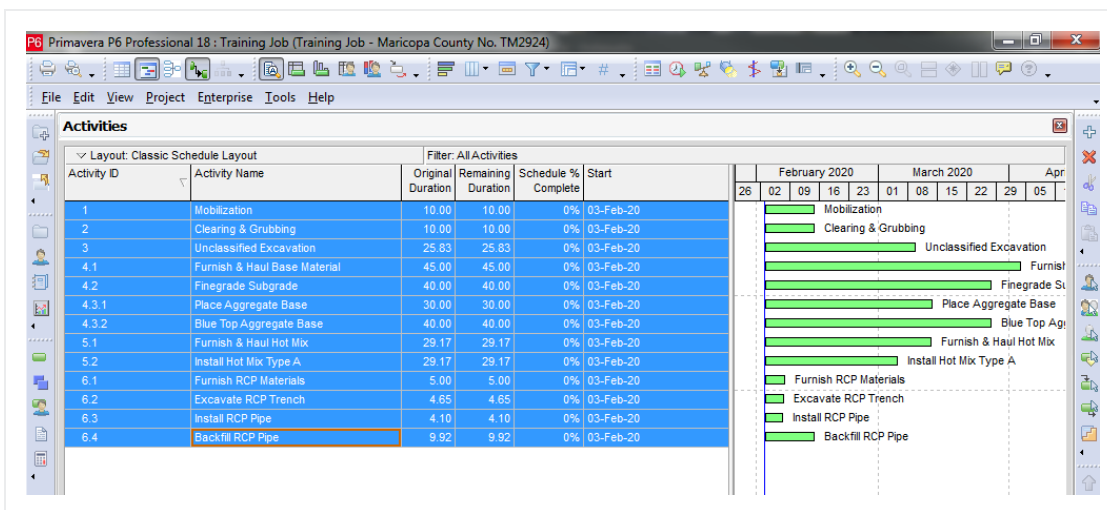
You can also bring information back from Primavera into InEight Estimate. When you update InEight Estimate from Primavera, the following information updates:

Update InEight Estimate from Primavera		
Data Type	Primavera	InEight Estimate
Activity Data	Start Dates	Start Dates
	Finish Dates	Finish Dates
	Relationships	Schedule Relationships
	Hours	Plugged Days

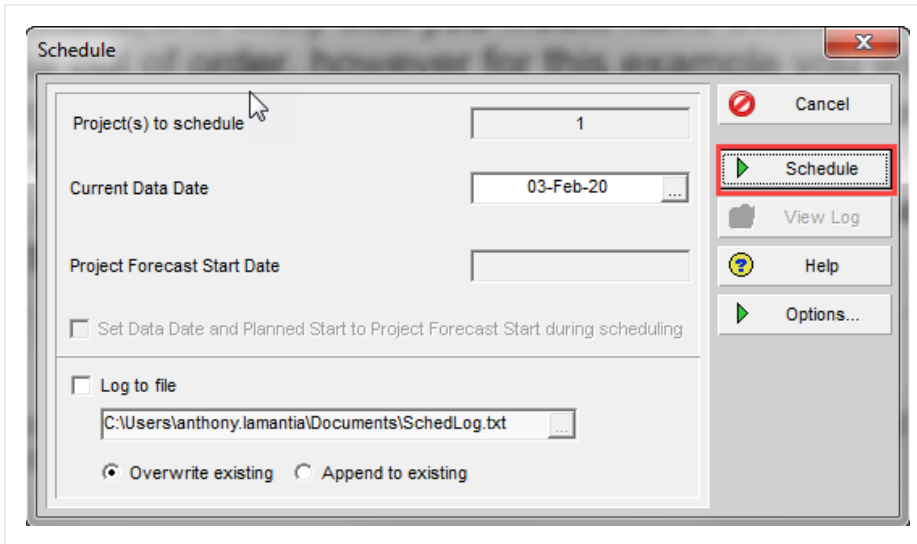
Complete the following steps to practice updating InEight Estimate from Primavera. You will create a scheduling relationship in Primavera, and then import the updated dates and relationships into InEight Estimate.

Step by Step — Update InEight Estimate from Primavera

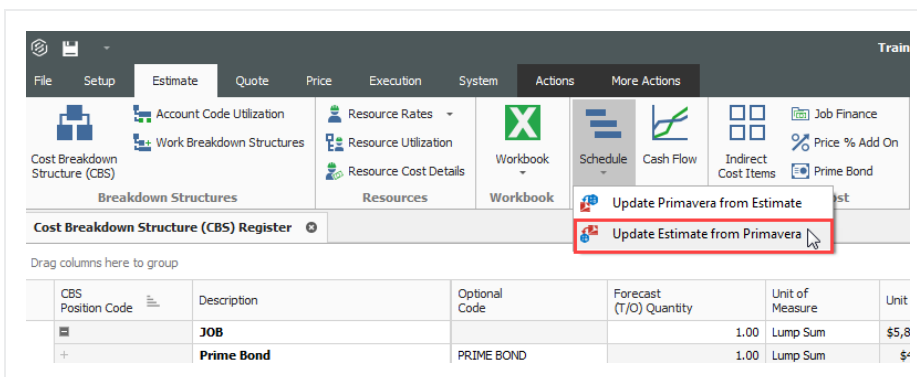
- Open your version of the **Training Job** project in Primavera.
 - In the real world, it is likely that you would have overlapping activities, or your activities would occur out of order, however for this example you will link all activities from finish to start
- Highlight all of your activities from **1-Mobilization** through **6.4-Backfill RCP Pipe**.



- Right click on one of the selected rows and select **Link Selected Activities** to create the Finish to Start relationship.
 - You may have to select the Relationship Lines button to show the linked activities in the graph on the right side of the screen.
- To schedule this new relationship, select the **Schedule** button (or press the **F9** key).
- On the Schedule Project window, keep the default settings and select the **Schedule** button.



6. To update InEight Estimate with this change, go back to InEight Estimate and select **Estimate** tab.
7. Select **Schedule>Update Estimate from Primavera**.



8. On the Update InEight Estimate from Primavera prompt, keep the default **Update the estimate to stay in synch with the schedule** selected, then click **OK**.

Update Estimate from Primavera

This will update the cost items in this job with schedule dates, durations and descriptions from Primavera. This may change the duration of these cost items, which could affect their cost. Changes made to Resource or Cost data in Primavera will NOT affect Estimate. How do you wish to proceed?

Update the estimate to stay in synch with the schedule.
Change the estimated work hours for all hourly resources employed on these cost items to reflect the new durations (this will change the cost item's cost).

Do NOT update the estimate.
Instead, schedule these cost items using Plug Days. (Note: you can toggle the schedule between Plug Days and Estimated Days for each cost item directly in the Job's CBS.)

OK
Cancel

Never ask me this question again

9. On the Schedule Setup View, you can see the Start and Finish dates updated from Primavera.

CBS Position Code	Description	Start	Finish	Early Start	Early Finish	Late Start	Late Finish
	JOB	2/3/2020	2/23/2021	2/3/2020	2/23/2021	2/3/2020	2/23/2021
+	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						
+ 1	Mobilization	2/3/2020	2/14/2020	2/3/2020	2/14/2020	2/3/2020	2/14/2020
+ 2	Clearing & Grubbing	2/17/2020	2/28/2020	2/17/2020	2/28/2020	2/17/2020	2/28/2020
▣ 3	Unclassified Excavation	3/2/2020	4/6/2020	3/2/2020	4/6/2020	3/2/2020	4/6/2020
+ 3.1	Excavation	3/2/2020	4/6/2020	3/2/2020	4/6/2020	3/2/2020	4/6/2020
+ 3.2	Embankment	3/2/2020	4/6/2020	3/2/2020	4/6/2020	3/2/2020	4/6/2020
▣ 4	Aggregate Base	4/6/2020	11/9/2020	4/6/2020	11/9/2020	4/6/2020	11/9/2020
+ 4.1	Furnish & Haul Base Material	4/6/2020	6/8/2020	4/6/2020	6/8/2020	4/6/2020	6/8/2020
+ 4.2	Finegrade Subgrade	6/8/2020	8/3/2020	6/8/2020	8/3/2020	6/8/2020	8/3/2020
▣ 4.3	Install Aggregate Base	8/3/2020	11/9/2020	8/3/2020	11/9/2020	8/3/2020	11/9/2020
+ 4.3.1	Place Aggregate Base	8/3/2020	9/14/2020	8/3/2020	9/14/2020	8/3/2020	9/14/2020

12.1.5 Manage Changes Between Estimate and Schedule

As changes to scope, resources, and costs come up in your estimate, and changes to relationships and dates occur in the schedule, you can continue updating your estimate and schedule as needed.

12.1.5.7 Plug Days

The Schedule Plug Days option allows you to define the duration in the schedule separate from the duration defined for your cost items on the Production tab.

For example, your 10" PVC Pipe activity may have extra days in the schedule due to the delivery date of the pipe material, but you don't want those extra days to drive the costs in your estimate, since your crews won't be working on the activity on those extra days.

NOTE All superior cost items are hard-coded to use Schedule Plug Days.

Step by Step — Schedule Plug Days

1. Look at the Days (Duration driven) column in the CBS where it shows 4.65 days for Excavate-Install-Backfill Pipe.
2. Make sure the **Schedule Plug Days** checkbox is selected on the **Excavate-Install-Backfill Pipe** cost item, then enter a Plug Days duration for the number of days the item will be scheduled in Primavera (**7** days).

CBS Position Code	Description	Days (Duration driven)	Schedule Plug Days	Plug Days
6	36 Inch RCP Culvert Class III	18.66	<input checked="" type="checkbox"/>	26.01
+ 6.1	Furnish RCP Materials	0.00	<input checked="" type="checkbox"/>	5.00
+ 6.2	Excavate RCP Trench	4.65	<input checked="" type="checkbox"/>	7.00
+ 6.3	Install RCP Pipe	4.10	<input type="checkbox"/>	4.10
+ 6.4	Backfill RCP Pipe	9.92	<input type="checkbox"/>	9.92

- This allows you to maintain your duration of 4.65 days in the estimate and 7 days in the schedule.

12.1.5.8 Update Primavera with InEight Estimate Changes

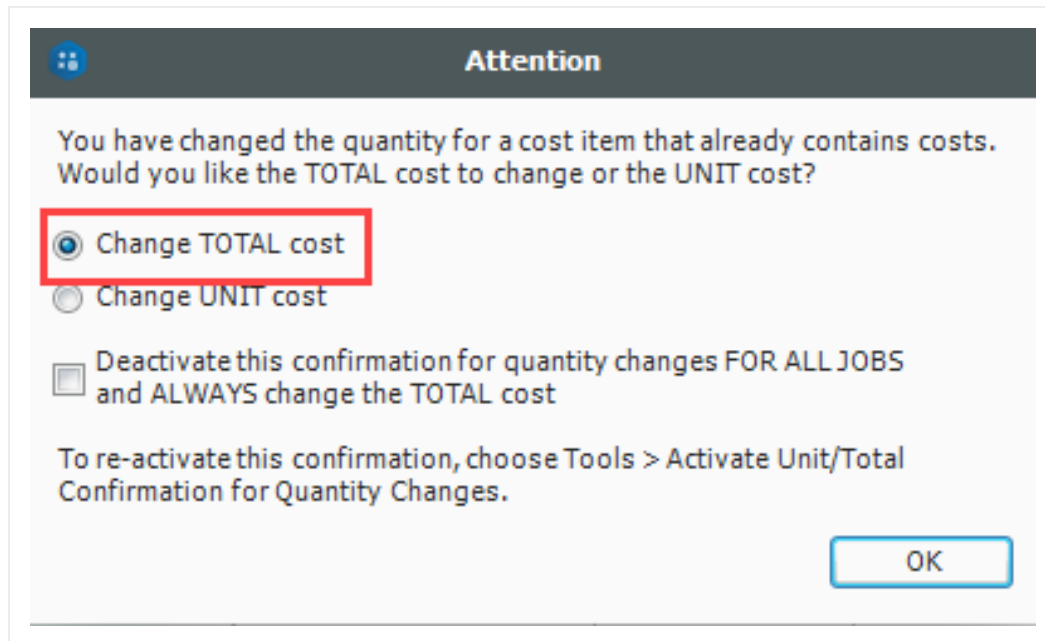
The following steps will walk you through updating the schedule with a scope change in your estimate.

Step by Step — Update Primavera with InEight Estimate Changes

- In the **Training Job** from the Estimate tab, select **Cost Breakdown Structure**.
 - In this scenario, there is a scope change for your Excavation requiring you to change all of your quantities
- Change the quantity in the Forecast (T/O) Quantity field in the CBS as specified below:

Quantity Change for Cost Item			
CBS Code	Description	Old Quantity	New Quantity
5	Asphalt Concrete Hot Mix Type A	35,000	25,000

- As you make your changes, take note of how your duration changes in the Days (Duration driven) column for these items
- If prompted about changing Total or Unit Cost, select **Change TOTAL cost**, so that your unit costs stay intact, then click **OK**.



- From the Estimate tab, select **Schedule>Update Primavera from InEight Estimate** to send the changed hours to Primavera.

- The Update Primavera From InEight Estimate dialog prompts you to indicate what data to update to Primavera
4. Make sure Resources and Expenses are checked, then select **OK**.

Update Primavera From Estimate

Choose the data to update in the linked Primavera schedule. Data will be updated according to the Schedule options specified in Job Properties.

WBS / Activities (always updated)

Resources

Expenses

Actuals

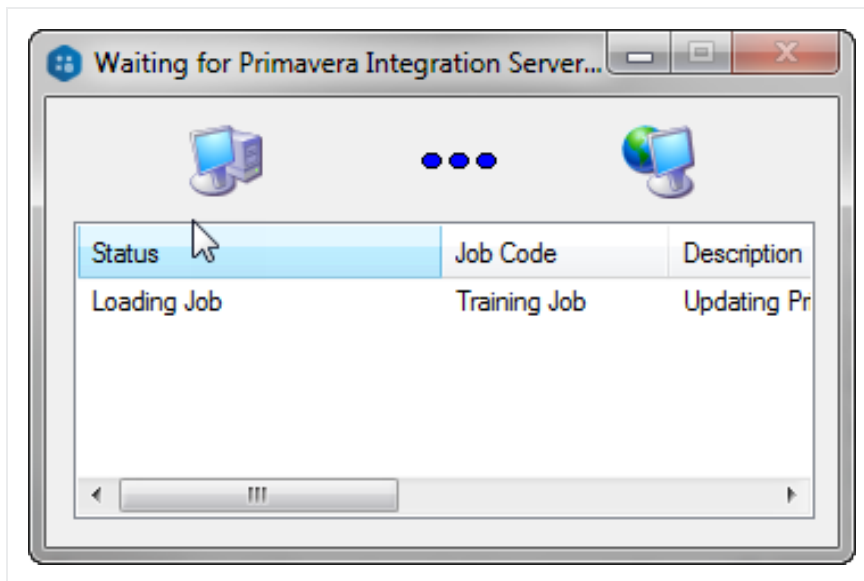
Tags

Schedule Relationships

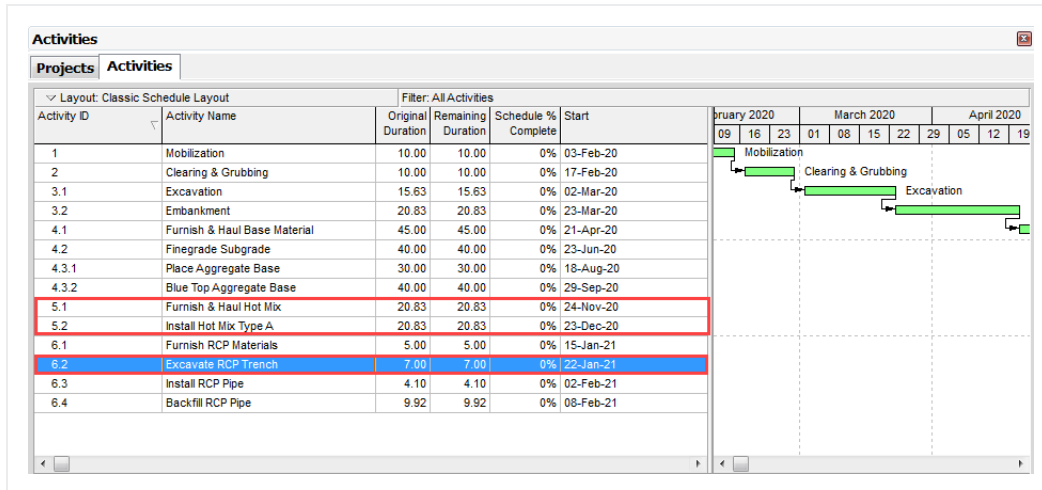
Please commit any changes in Primavera before clicking OK.

OK **Cancel**

- A window appears that shows the progress of the data sync between InEight Estimate and Primavera. Depending on the size of the job, this can take a few minutes



- When the window disappears, the update is complete
5. Open Primavera (P6 Web Client).
 6. Open the **Training Job** project.
 7. On the Activities screen, compare the Planned Duration to the Days (Duration driven) in InEight Estimate for Excavate-Install-Backfill Pipe.
 - The Primavera scheduled duration should have changed from 4.65 days to 7 days to match the updated duration in InEight Estimate for Excavate-Install-Backfill Pipe
 - You will also notice a change in days for Excavation after changing the T/O Quantity in InEight Estimate



- To schedule this change in Primavera, select the **Schedule** button (or press the **F9** key) and select the **Schedule** button on the Schedule Project window.
- Your start and finish dates are different now. In InEight Estimate, from the Estimate tab, select **Schedule>Update InEight Estimate from Primavera** to update InEight Estimate with the new dates.

CBS Position Code	Description	Start	Finish	Early Start	Early Finish	Late Start	Late Finish
+ 1	Mobilization	2/3/2020	2/14/2020	2/3/2020	2/14/2020	2/3/2020	2/17/2020
+ 2	Clearing & Grubbing	2/17/2020	2/28/2020	2/17/2020	2/28/2020	2/17/2020	3/2/2020
▣ 3	Unclassified Excavation	3/2/2020	4/21/2020	3/2/2020	4/21/2020	3/2/2020	4/21/2020
+ 3.1	Excavation	3/2/2020	3/23/2020	3/2/2020	3/23/2020	3/2/2020	3/23/2020
+ 3.2	Embankment	3/23/2020	4/21/2020	3/23/2020	4/21/2020	3/23/2020	4/21/2020
▣ 4	Aggregate Base	4/21/2020	11/24/2020	4/21/2020	11/24/2020	4/21/2020	11/24/2020
+ 4.1	Furnish & Haul Base Material	4/21/2020	6/23/2020	4/21/2020	6/23/2020	4/21/2020	6/23/2020
+ 4.2	Finegrade Subgrade	6/23/2020	8/18/2020	6/23/2020	8/18/2020	6/23/2020	8/18/2020
▣ 4.3	Install Aggregate Base	8/18/2020	11/24/2020	8/18/2020	11/24/2020	8/18/2020	11/24/2020
+ 4.3.1	Place Aggregate Base	8/18/2020	9/29/2020	8/18/2020	9/29/2020	8/18/2020	9/29/2020
+ 4.3.2	Blue Top Aggregate Base	9/29/2020	11/24/2020	9/29/2020	11/24/2020	9/29/2020	11/24/2020
▣ 5	Asphalt Concrete Hot Mix Type A	11/24/2020	1/14/2021	11/24/2020	1/14/2021	11/24/2020	1/15/2021
+ 5.1	Furnish & Haul Hot Mix	11/24/2020	12/23/2020	11/24/2020	12/23/2020	11/24/2020	12/23/2020
+ 5.2	Install Hot Mix Type A	12/23/2020	1/14/2021	12/23/2020	1/14/2021	12/23/2020	1/15/2021
▣ 6	36 Inch RCP Culvert Class III	1/15/2021	2/22/2021	1/15/2021	2/22/2021	1/15/2021	2/22/2021
+ 6.1	Furnish RCP Materials	1/15/2021	1/21/2021	1/15/2021	1/21/2021	1/15/2021	1/21/2021
+ 6.2	Excavate RCP Trench	1/22/2021	2/1/2021	1/22/2021	2/1/2021	1/22/2021	2/1/2021
+ 6.3	Install RCP Pipe	2/2/2021	2/8/2021	2/2/2021	2/8/2021	2/2/2021	2/8/2021
+ 6.4	Backfill RCP Pipe	2/8/2021	2/22/2021	2/8/2021	2/22/2021	2/8/2021	2/22/2021

Exercise 12.1 — Manage Changes Between Estimate and Primavera

As changes occur during the estimating process, you can keep the estimate and schedule in sync through schedule integration. In this exercise, you will practice making changes between the estimate and schedule. Complete the following steps:

1. Open the **Training Job** and open the **CBS Register**.

2. Check the box in the Schedule Plug Days column for the Install RCP Pipe.

3. Change the Plug Days for Install RCP Pipe to **8 days**.

4. Update Primavera from InEight Estimate.

5. Open the Training Job project in Primavera and confirm the Planned Duration (you may need to change your view to see this column) changed to 8 days.

6. In Primavera, change the Planned Duration for Backfill RCP Pipe to **12 days**.

7. Schedule the changes in Primavera (Schedule button or F9).

8. Update InEight Estimate from Primavera.

You should end up with the following results

Cost item 6.3 Install RCP Pipe is now showing 8 Plug days in Primavera.

Activity ID	Activity Name	Original Duration	Remaining Duration	Schedule % Complete	Start	Finish
1	Mobilization	10.00	10.00	0%	03-Feb-20	14-Feb-20
2	Clearing & Grubbing	10.00	10.00	0%	17-Feb-20	28-Feb-20
3.1	Excavation	15.63	15.63	0%	02-Mar-20	23-Mar-20
3.2	Embankment	20.83	20.83	0%	23-Mar-20	21-Apr-20
4.1	Furnish & Haul Base Material	45.00	45.00	0%	21-Apr-20	23-Jun-20
4.2	Finegrade Subgrade	40.00	40.00	0%	23-Jun-20	18-Aug-20
4.3.1	Place Aggregate Base	30.00	30.00	0%	18-Aug-20	29-Sep-20
4.3.2	Blue Top Aggregate Base	40.00	40.00	0%	29-Sep-20	24-Nov-20
5.1	Furnish & Haul Hot Mix	20.83	20.83	0%	24-Nov-20	23-Dec-20
5.2	Install Hot Mix Type A	20.83	20.83	0%	23-Dec-20	14-Jan-21
6.1	Furnish RCP Materials	5.00	5.00	0%	15-Jan-21	21-Jan-21
6.2	Excavate RCP Trench	7.00	7.00	0%	22-Jan-21	01-Feb-21
6.3	Install RCP Pipe	8.00	8.00	0%	02-Feb-21	11-Feb-21
6.4	Backfill RCP Pipe	9.92	9.92	0%	08-Feb-21	22-Feb-21

Cost item 6.4 Backfill RCP Pipe should have 12 plug days in InEight Estimate.

CBS Position Code	Description	Days (Duration driven)	Schedule Plug Days	Plug Days	Start	Finish
6	36 Inch RCP Culvert Class III	18.66	<input checked="" type="checkbox"/>	46.00	1/15/2021	3/1/2021
+ 6.1	Furnish RCP Materials	0.00	<input checked="" type="checkbox"/>	5.00	1/15/2021	1/21/2021
+ 6.2	Excavate RCP Trench	4.65	<input checked="" type="checkbox"/>	7.00	1/22/2021	2/1/2021
+ 6.3	Install RCP Pipe	4.10	<input checked="" type="checkbox"/>	8.00	2/2/2021	2/11/2021
+ 6.4	Backfill RCP Pipe	9.92	<input checked="" type="checkbox"/>	12.00	2/12/2021	3/1/2021

Congratulations, you have completed this exercise!

12.2 MICROSOFT PROJECT

12.2.1 Set Up Scheduling Options

Prior to sending information from InEight Estimate to Microsoft Project, you need to make sure the proper settings are in place.

12.2.1.1 Job Properties Schedule Tab

Microsoft Project scheduling options are configured on the Schedule tab of the Job Properties form.

- At the top of the Schedule tab, the Integrated Schedule must be set to **Microsoft Project**
- As a default, the **Always use Plug Days when updating InEight Estimate from the schedule** checkbox is not selected (on a job by job basis, this box can be checked later for jobs in which an estimator does not want updates from Microsoft Project to change the duration and therefore the cost of your cost items in InEight Estimate)

The screenshot shows the 'Job Properties' form with the 'Schedule' tab selected. The 'Integrated Schedule' dropdown is set to 'Microsoft Project'. The 'Always use Plug Days when updating Estimate from the schedule' checkbox is unchecked. The 'Schedule Currency' is set to 'U.S. Dollar'. Below these fields is the 'Cost Item Roll Up' section, which includes a checkbox for 'Automatically calculate Plug Days when rolling up cost items for scheduling purposes'. This checkbox is checked, and the radio button for 'Longest scheduled days among all rolled up cost items' is selected. A note below states: 'Note: When rolling up cost items for scheduling purposes, the Plug Days of the superior cost item will be recalculated when a change is made to the scheduled days of a subordinate.' A button labeled 'Recalculate Plug Days' is located at the bottom of the section.

12.2.2 Schedule Cost Items

Before you can integrate with Microsoft Project, your cost items need to be marked as Scheduled in InEight Estimate. This is done on the Cost Breakdown Structure (CBS) Register. From your Saved Views drop-down list in the CBS, the Schedule Setup View displays all of your schedule-related columns. There are a couple to keep in mind when you schedule your items:

- **Scheduled:** This column tells you which of your items are selected to be included in your Primavera schedule
- **Roll Up Schedule:** This column lets you check a box to roll up your estimate to the selected level when it imports into Primavera

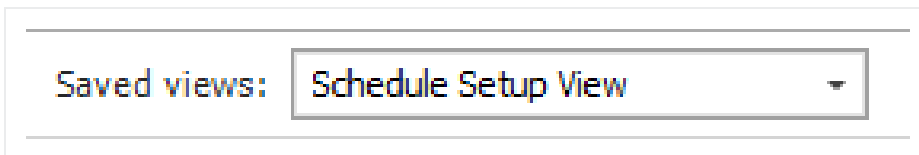
In the below example, notice that all of the cost items are scheduled, but the subordinates for Unclassified Excavation will be rolled up to the superior level.

CBS Position Code	Description	Scheduled	Roll Up Schedule
+ 1	Mobilization	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 2	Clearing & Grubbing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
▣ 3	Unclassified Excavation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
+ 3.1	Excavation	<input type="checkbox"/>	<input type="checkbox"/>
+ 3.2	Embankment	<input type="checkbox"/>	<input type="checkbox"/>
▣ 4	Aggregate Base	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 4.1	Furnish & Haul Base Material	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 4.2	Finegrade Subgrade	<input checked="" type="checkbox"/>	<input type="checkbox"/>
▣ 4.3	Install Aggregate Base	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The following steps walk you through scheduling your cost items.

Step by Step — Schedule a Cost Item in InEight Estimate

1. In the **Training Job**, from the Estimate tab, select **Cost Breakdown Structure**.
2. In the Saved Views drop-down list, select **Schedule Setup View**.



- In the Scheduled column, you can select the checkbox for each cost item that you want to schedule
- If a cost item has subordinate cost items below it, you will only be able to check the superior cost item, which will automatically schedule the subordinate cost items along with it

3. Select the **Mobilization, Clearing & Grubbing, and Unclassified Excavation** cost items, then press **Tab**.

CBS Position Code	Description	Scheduled	Roll Up Schedule
[-]	JOB	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+	Prime Bond	<input type="checkbox"/>	<input type="checkbox"/>
+	Price % Add-On	<input type="checkbox"/>	<input type="checkbox"/>
+	Job Financing	<input type="checkbox"/>	<input type="checkbox"/>
+	Indirect Cost Escalation	<input type="checkbox"/>	<input type="checkbox"/>
+	Direct Cost Escalation	<input type="checkbox"/>	<input type="checkbox"/>
+	Indirect Cost Add-On	<input type="checkbox"/>	<input type="checkbox"/>
+	Job Management & Equipment	<input type="checkbox"/>	<input type="checkbox"/>
+	General Expense	<input type="checkbox"/>	<input type="checkbox"/>
+	Direct Cost Add-On	<input type="checkbox"/>	<input type="checkbox"/>
+ 1	Mobilization	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 2	Clearing & Grubbing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
[-] 3	Unclassified Excavation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 3.1	Excavation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 3.2	Embankment	<input checked="" type="checkbox"/>	<input type="checkbox"/>
[-] 4	Aggregate Base	<input type="checkbox"/>	<input type="checkbox"/>
+ 4.1	Furnish & Haul Base Material	<input type="checkbox"/>	<input type="checkbox"/>
+ 4.2	Finegrade Subgrade	<input type="checkbox"/>	<input type="checkbox"/>

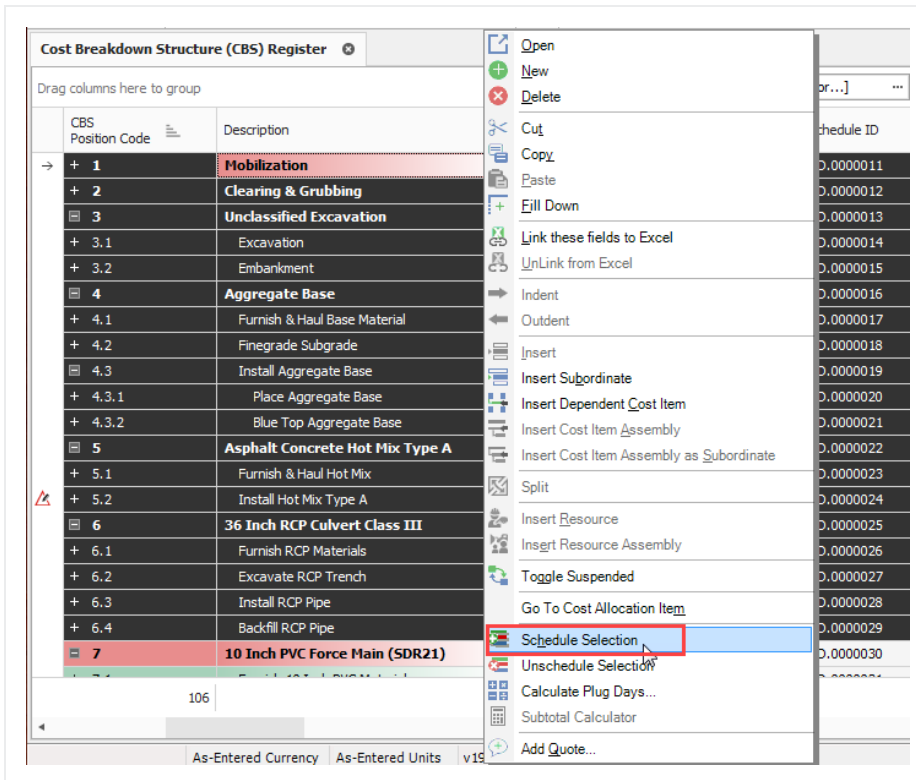
Step by Step — Schedule a Group of Cost Items in InEight Estimate

1. In the **Training Job**, from the Estimate tab, select **Cost Breakdown Structure**.
2. From the Saved Views drop-down list, select **Schedule Setup View**.
 - To schedule multiple cost items, you can highlight the row for each cost item that you want to schedule, using the Shift and Ctrl keys to select multiple rows.
3. Select additional cost items **4-Aggregate base, 5- Asphalt Concrete Hot Mix, and 6- 36-inch RCP Culvert Class**.

TIP

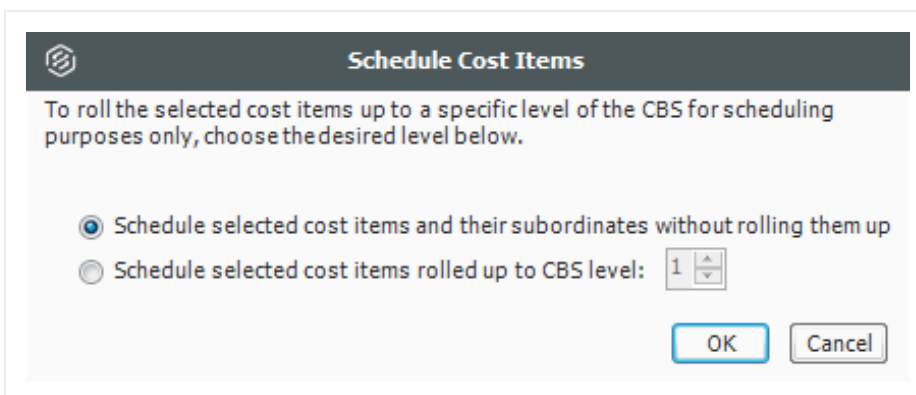
To schedule all cost items, highlight the JOB row

4. Right click on the selected rows and select **Schedule Selection**.



- On the Schedule Cost Items dialog, you can select whether or not you want to roll up the selected cost items to a specific level of the CBS for scheduling purposes

5. Select **Schedule selected cost items and their subordinates without rolling them up**, then click **OK**.



- Your scheduled cost items will import into Primavera the next time you update Primavera from InEight Estimate.

12.2.2.2 Roll Up Schedule

For cost item 3 – Unclassified Excavation, your scheduler does not need all of your estimate details and wants to roll up your cost items to a higher level when they import into the Primavera schedule.

Follow the steps below to learn how to roll up your cost items for the schedule.

Step by Step — Roll Up Schedule

1. In the **Training Job**, from the Estimate tab select **Cost Breakdown Structure**.
2. From the Saved Views drop-down list, select **Schedule Setup View**.
 - Review your cost items to decide which cost items need to be rolled up
3. Select the **Roll Up Schedule** checkbox on the Unclassified Excavation cost item.

CBS Position Code	Description	Scheduled	Roll Up Schedule
+ 1	Mobilization	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 2	Clearing & Grubbing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
▣ 3	Unclassified Excavation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
+ 3.1	Excavation	<input type="checkbox"/>	<input type="checkbox"/>
+ 3.2	Embankment	<input type="checkbox"/>	<input type="checkbox"/>
▣ 4	Aggregate Base	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 4.1	Furnish & Haul Base Material	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 4.2	Finegrade Subgrade	<input checked="" type="checkbox"/>	<input type="checkbox"/>
▣ 4.3	Install Aggregate Base	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 4.3.1	Place Aggregate Base	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ 4.3.2	Blue Top Aggregate Base	<input checked="" type="checkbox"/>	<input type="checkbox"/>

12.2.3 Update Microsoft Project from InEight Estimate

Now that you have set up your schedule to integrate with Microsoft Project in Job Properties and scheduled your cost items in the CBS, you are ready to send your project information to Microsoft Project.

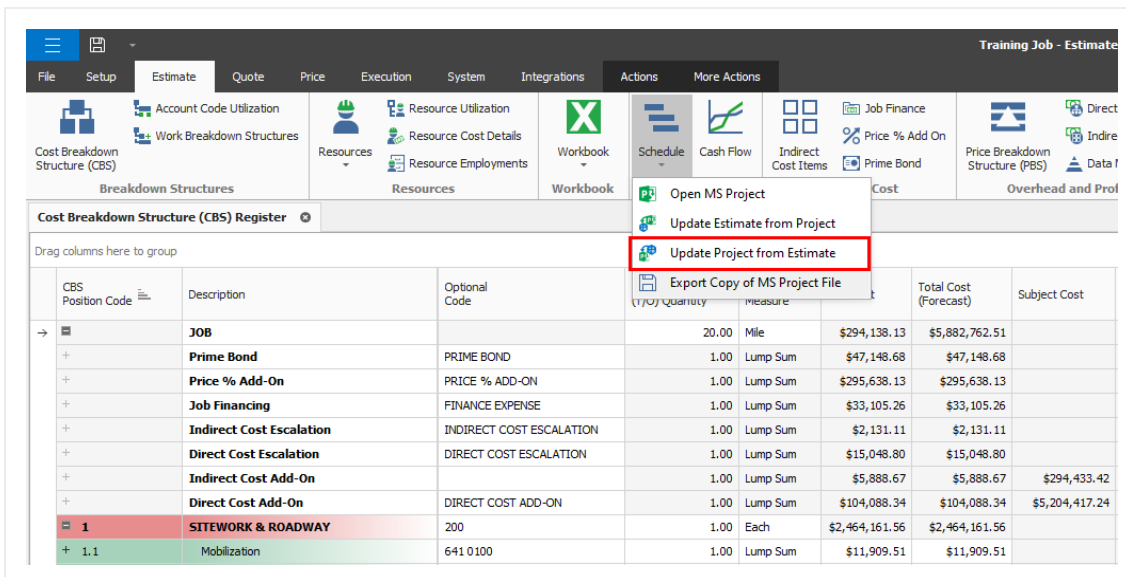
When you first update Microsoft Project from InEight Estimate, Microsoft Project will create a new project automatically and load it with the following information from InEight Estimate:

Data Sent from InEight Estimate to Microsoft Project		
Data Type	InEight Estimate	Microsoft Project
Project Data	Job Code	Project Name
Activity Data	CBS Position Code	01 - CBS Position Code
	Description	Description
	Days (Duration Driven)	Duration
Cost Data	Cost Category Total Cost	Cost Category (custom text columns)

The following steps walk you through updating Microsoft Project from InEight Estimate to create a new schedule.

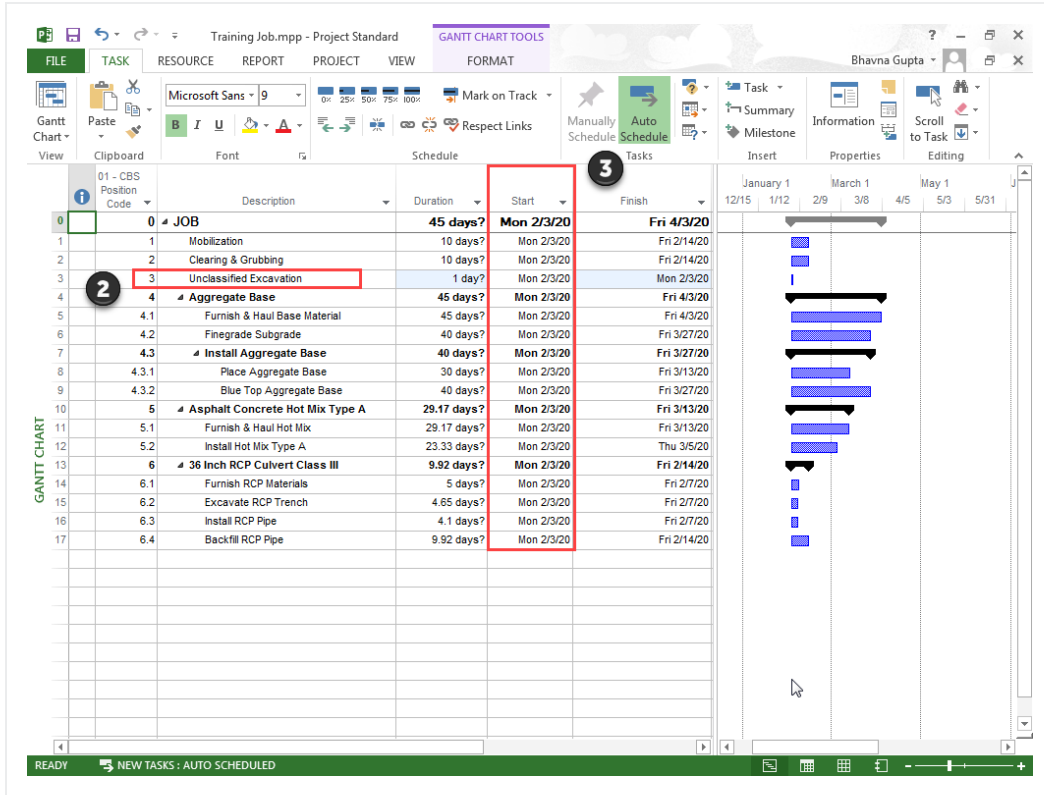
Step by Step — Update MS Project from InEight Estimate

- From the Estimate tab, select **Schedule>Update Project from InEight Estimate**.



- Your job automatically opens in Microsoft Project
- The Work Breakdown Structure Layout displays for the project

- You can see the breakdown structure imported from InEight Estimate with durations, rolled up as specified by the Roll Up Schedule option in InEight Estimate
- Initially, the start date for your activities is the start date defined on the Job Properties > Cover Sheet tab (these will change as activity relationships are defined)



12.2.4 Update InEight Estimate from Microsoft Project

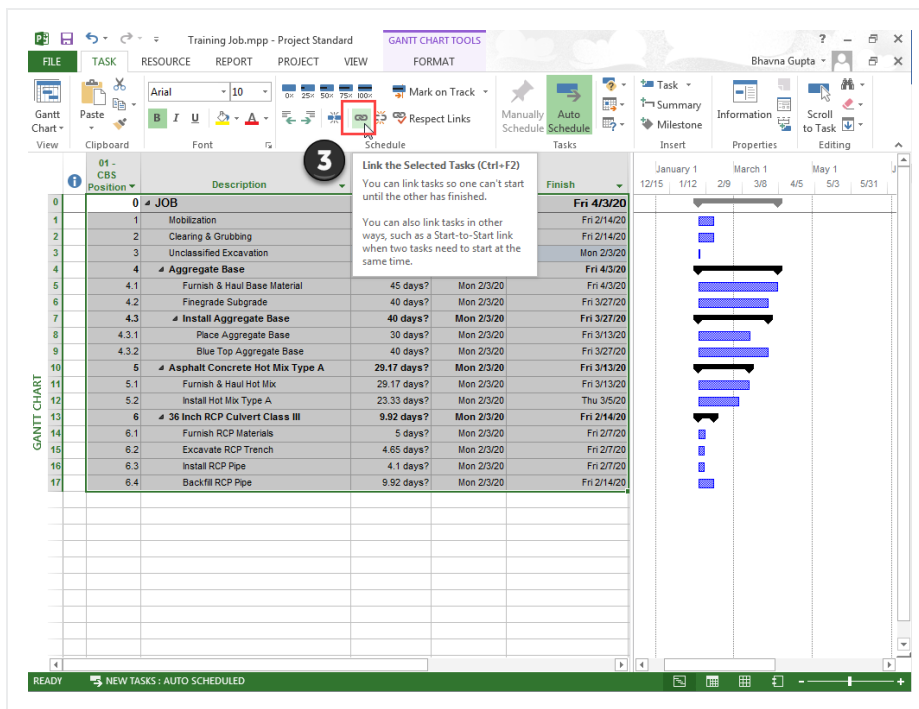
You can also bring information back from Microsoft Project into InEight Estimate. When you update InEight Estimate from Microsoft Project, the following information updates:

Update InEight Estimate from Microsoft Project		
Data Type	Microsoft Project	InEight Estimate
Activity Data	Start Dates	Start Dates
	Finish Dates	Finish Dates
	Hours	Hours

Walk through the following steps to practice updating InEight Estimate from Microsoft Project. You will create a scheduling relationship in Microsoft Project and then import the updated dates and relationships into InEight Estimate.

Step by Step — Update InEight Estimate from MS Project

1. Open your version of the **Training Job** project in Microsoft Project.
 - In the real world, it is likely that you would have overlapping activities or your activities would be out of order, however for this example you will link all activities from finish to start
2. Click on the **Link Tasks** icon to link all activities.



- Ensure the **Auto Schedule** button is selected
3. To update InEight Estimate with this change, go back to InEight Estimate and from the Estimate tab, select **Schedule>Update InEight Estimate from Project**.

CBS Position Code	Description	Optional Code	Quantity	Measure	Unit Cost	Total Cost (Forecast)	Subject Cost
	JOB		20.00	Mile	\$294,138.13	\$5,882,762.51	
	Prime Bond	PRIME BOND	1.00	Lump Sum	\$47,148.68	\$47,148.68	
	Price % Add-On	PRICE % ADD-ON	1.00	Lump Sum	\$295,638.13	\$295,638.13	
	Job Financing	FINANCE EXPENSE	1.00	Lump Sum	\$33,105.26	\$33,105.26	
	Indirect Cost Escalation	INDIRECT COST ESCALATION	1.00	Lump Sum	\$2,131.11	\$2,131.11	
	Direct Cost Escalation	DIRECT COST ESCALATION	1.00	Lump Sum	\$15,048.80	\$15,048.80	
	Indirect Cost Add-On		1.00	Lump Sum	\$5,888.67	\$5,888.67	\$294,433.42
	Direct Cost Add-On	DIRECT COST ADD-ON	1.00	Lump Sum	\$104,088.34	\$104,088.34	\$5,204,417.24
1	SITEWORK & ROADWAY	200	1.00	Each	\$2,464,161.56	\$2,464,161.56	
+ 1.1	Mobilization	641 0100	1.00	Lump Sum	\$11,909.51	\$11,909.51	

- On the Schedule Setup View, you can see the Start and Finish dates updated from MS Project.

CBS Position Code	Description	Start	Finish	Early Start	Early Finish	Late Start	Late Finish
+ 1	Mobilization	2/3/2020	2/14/2020	2/3/2020	2/14/2020	2/3/2020	2/14/2020
+ 2	Clearing & Grubbing	2/17/2020	2/28/2020	2/17/2020	2/28/2020	2/17/2020	2/28/2020
3	Unclassified Excavation	3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/2/2020
+ 3.1	Excavation	3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/2/2020
+ 3.2	Embankment	3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/2/2020
4	Aggregate Base	3/3/2020	10/5/2020	3/3/2020	10/5/2020	3/3/2020	10/5/2020
+ 4.1	Furnish & Haul Base Material	3/3/2020	5/4/2020	3/3/2020	5/4/2020	3/3/2020	5/4/2020
+ 4.2	Finegrade Subgrade	5/5/2020	6/29/2020	5/5/2020	6/29/2020	5/5/2020	6/29/2020
4.3	Install Aggregate Base	6/30/2020	10/5/2020	6/30/2020	10/5/2020	6/30/2020	10/5/2020
+ 4.3.1	Place Aggregate Base	6/30/2020	8/10/2020	6/30/2020	8/10/2020	6/30/2020	8/10/2020
+ 4.3.2	Blue Top Aggregate Base	8/11/2020	10/5/2020	8/11/2020	10/5/2020	8/11/2020	10/5/2020
5	Asphalt Concrete Hot Mix Type A	10/6/2020	12/17/2020	10/6/2020	12/17/2020	10/6/2020	12/17/2020
+ 5.1	Furnish & Haul Hot Mix	10/6/2020	11/16/2020	10/6/2020	11/16/2020	10/6/2020	11/16/2020
+ 5.2	Install Hot Mix Type A	11/16/2020	12/17/2020	11/16/2020	12/17/2020	11/16/2020	12/17/2020
6	36 Inch RCP Culvert Class III	12/17/2020	1/20/2021	12/17/2020	1/20/2021	12/17/2020	1/20/2021
+ 6.1	Furnish RCP Materials	12/17/2020	12/24/2020	12/17/2020	12/24/2020	12/17/2020	12/24/2020
+ 6.2	Excavate RCP Trench	12/24/2020	12/31/2020	12/24/2020	12/31/2020	12/24/2020	12/31/2020
+ 6.3	Install RCP Pipe	12/31/2020	1/6/2021	12/31/2020	1/6/2021	12/31/2020	1/6/2021
+ 6.4	Backfill RCP Pipe	1/6/2021	1/20/2021	1/6/2021	1/20/2021	1/6/2021	1/20/2021

12.2.5 Export Copy of MS Project File

If your project’s schedule is integrated with MS Project, you can export a copy of your MS Project file. This can be advantageous if a preliminary schedule is needed for a starting point schedule, as the

project goes into execution. Recreating the schedule from scratch can be time consuming and error prone, as the existing schedule details might not be properly captured in the beginning stages.

The screenshot shows the 'Estimate' tab in the software. A dropdown menu is open under the 'Actions' tab, with the option 'Export Copy of MS Project File' highlighted in a red box. Below the menu is a table with columns for CBS Position Code, Description, Optional Code, Quantity, Resource, Total Cost (Forecast), and Subject Cost.

CBS Position Code	Description	Optional Code	Quantity	Resource	Total Cost (Forecast)	Subject Cost	
	JOB		20.00	Mile	\$294,138.13	\$5,882,762.51	
+	Prime Bond	PRIME BOND	1.00	Lump Sum	\$47,148.68	\$47,148.68	
+	Price % Add-On	PRICE % ADD-ON	1.00	Lump Sum	\$295,638.13	\$295,638.13	
+	Job Financing	FINANCE EXPENSE	1.00	Lump Sum	\$33,105.26	\$33,105.26	
+	Indirect Cost Escalation	INDIRECT COST ESCALATION	1.00	Lump Sum	\$2,131.11	\$2,131.11	
+	Direct Cost Escalation	DIRECT COST ESCALATION	1.00	Lump Sum	\$15,048.80	\$15,048.80	
+	Indirect Cost Add-On		1.00	Lump Sum	\$5,888.67	\$5,888.67	\$294,433.42
+	Direct Cost Add-On	DIRECT COST ADD-ON	1.00	Lump Sum	\$104,088.34	\$104,088.34	\$5,204,417.24
1	SITWORK & ROADWAY	200	1.00	Each	\$2,464,161.56	\$2,464,161.56	
+ 1.1	Mobilization	641 0100	1.00	Lump Sum	\$11,909.51	\$11,909.51	

12.2.6 Manage Changes Between Estimate and Schedule

As changes to scope, resources, and costs come up in your estimate, and changes to relationships and dates occur in the schedule, you can continue updating your estimate and schedule as needed.

12.2.6.3 Plug Days

The Schedule Plug Days option allows you to define the duration in the schedule separate from the duration defined for your cost items on the Production tab. For example, your 10" PVC Pipe activity may have extra days in the schedule due to the delivery date of the pipe material, but you don't want those extra days to drive the costs in your estimate, since your crews won't be working on the activity on those extra days.

TIP All superior cost items are hard-coded to use Schedule Plug Days.

Step by Step — Schedule Plug Days

1. Look at the Days (Duration driven) column in the CBS where it shows 4.65 days for Excavate RCP Trench.
2. Make sure the **Schedule Plug Days** checkbox is selected on the Excavate RCP Trench cost item, and then enter a Plug Days duration for the number of days the item will be scheduled in Primavera (**7** days).

CBS Position Code	Description	Days (Duration driven)	Schedule Plug Days	Plug Days
6	36 Inch RCP Culvert Class III	18.66	<input checked="" type="checkbox"/>	26.01
+ 6.1	Furnish RCP Materials	0.00	<input checked="" type="checkbox"/>	5.00
+ 6.2	Excavate RCP Trench	4.65	<input checked="" type="checkbox"/>	7.00
+ 6.3	Install RCP Pipe	4.10	<input type="checkbox"/>	4.10
+ 6.4	Backfill RCP Pipe	9.92	<input type="checkbox"/>	9.92

- This allows you to maintain your duration of 4.65 days in the estimate and 7 days in the schedule.

Any duration changes made in Project will import into InEight Estimate as Plug Days automatically so that they can be reviewed by the estimator before making any changes to production in InEight Estimate.

12.2.6.4 Update Microsoft Project with InEight Estimate Changes

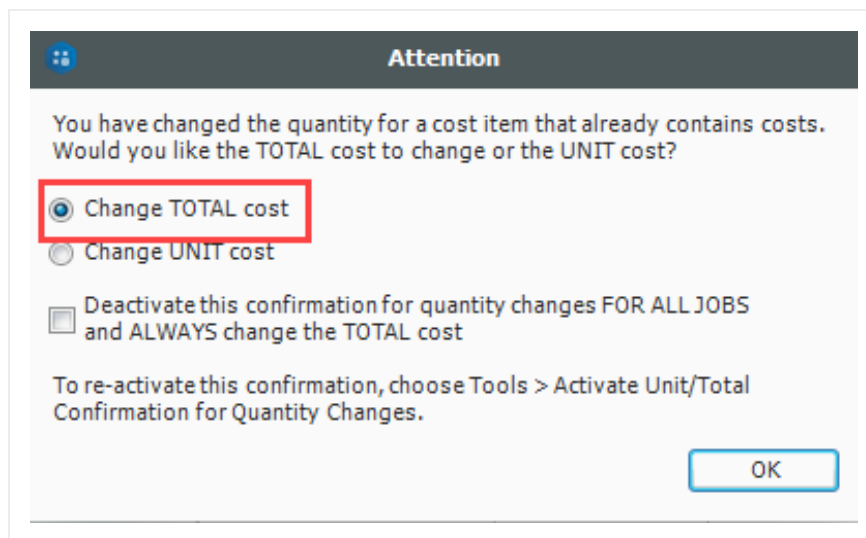
The following steps will walk you through updating the schedule with a scope change in your estimate.

Step by Step — Update MS Project with InEight Estimate Changes

1. In the InEight Estimate **Training Job**, from the Estimate tab, select **Cost Breakdown Structure**.
 - In this scenario, there is a scope change for your Excavation requiring you to change all of your quantities
2. Change the quantity in the Forecast (T/O) Quantity field in the CBS as specified below.

Quantity Change for Cost Item			
CBS Code	Description	Old Quantity	New Quantity
5	Asphalt Concrete Hot Mix Type A	35,000	25,000

- As you make your changes, take note of how your duration changes in the **Days (Duration driven)** column for these items.
- If prompted about changing Total or Unit Cost, select **Change TOTAL cost**, so that your unit costs stay intact



3. From the Estimate tab, select **Schedule>Update Project from InEight Estimate** to send the changed hours to Microsoft Project.
4. Go back to the **Training Job** in Microsoft Project.
 - The Microsoft Project scheduled duration should have changed from 4.65 days to 7 days to match the updated duration in InEight Estimate for Excavate RCP Trench
 - You can also see that the days for Asphalt Concrete Hot Mix Type A and its subordinates

adjusted because you adjusted the Forecast T/O Quantity in InEight Estimate

	01 - CBS Position Code	Description	Duration	Start	Finish
0	0	JOB	239.51 days?	Mon 2/3/20	Fri 1/1/21
1	1	Mobilization	10 days?	Mon 2/3/20	Fri 2/14/20
2	2	Clearing & Grubbing	10 days?	Mon 2/17/20	Fri 2/28/20
3	3	Unclassified Excavation	1 day?	Mon 3/2/20	Mon 3/2/20
4	4	Aggregate Base	155 days?	Tue 3/3/20	Mon 10/5/20
5	4.1	Furnish & Haul Base Material	45 days?	Tue 3/3/20	Mon 5/4/20
6	4.2	Finegrade Subgrade	40 days?	Tue 5/5/20	Mon 6/29/20
7	4.3	Install Aggregate Base	70 days?	Tue 6/30/20	Mon 10/5/20
8	4.3.1	Place Aggregate Base	30 days?	Tue 6/30/20	Mon 8/10/20
9	4.3.2	Blue Top Aggregate Base	40 days?	Tue 8/11/20	Mon 10/5/20
10	5	Asphalt Concrete Hot Mix Type A	37.5 days?	Tue 10/6/20	Thu 11/26/20
11	5.1	Furnish & Haul Hot Mix	20.83 days?	Tue 10/6/20	Tue 11/3/20
12	5.2	Install Hot Mix Type A	16.67 days?	Tue 11/3/20	Thu 11/26/20
13	6	36 Inch RCP Culvert Class III	26.01 days?	Thu 11/26/20	Fri 1/1/21
14	6.1	Furnish RCP Materials	5 days?	Thu 11/26/20	Thu 12/3/20
15	6.2	Excavate RCP Trench	7 days?	Thu 12/3/20	Mon 12/14/20
16	6.3	Install RCP Pipe	4.1 days?	Mon 12/14/20	Fri 12/18/20
17	6.4	Backfill RCP Pipe	9.92 days?	Fri 12/18/20	Fri 1/1/21

- Your Start and Finish dates are different now. In InEight Estimate, from the Estimate tab, select **Schedule >Update InEight Estimate from Project** to update InEight Estimate with the new dates.

CBS Position Code	Description	Start	Finish	Early Start	Early Finish	Late Start	Late Finish
+ 2	Clearing & Grubbing	2/17/2020	2/28/2020	2/17/2020	2/28/2020	2/17/2020	2/28/2020
3	Unclassified Excavation	3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/2/2020
+ 3.1	Excavation	3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/2/2020
+ 3.2	Embankment	3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/2/2020
4	Aggregate Base	3/3/2020	10/5/2020	3/3/2020	10/5/2020	3/3/2020	10/5/2020
+ 4.1	Furnish & Haul Base Material	3/3/2020	5/4/2020	3/3/2020	5/4/2020	3/3/2020	5/4/2020
+ 4.2	Finegrade Subgrade	5/5/2020	6/29/2020	5/5/2020	6/29/2020	5/5/2020	6/29/2020
4.3	Install Aggregate Base	6/30/2020	10/5/2020	6/30/2020	10/5/2020	6/30/2020	10/5/2020
+ 4.3.1	Place Aggregate Base	6/30/2020	8/10/2020	6/30/2020	8/10/2020	6/30/2020	8/10/2020
+ 4.3.2	Blue Top Aggregate Base	8/11/2020	10/5/2020	8/11/2020	10/5/2020	8/11/2020	10/5/2020
5	Asphalt Concrete Hot Mix Type A	10/6/2020	11/26/2020	10/6/2020	11/26/2020	10/6/2020	11/26/2020
+ 5.1	Furnish & Haul Hot Mix	10/6/2020	11/3/2020	10/6/2020	11/3/2020	10/6/2020	11/3/2020
+ 5.2	Install Hot Mix Type A	11/3/2020	11/26/2020	11/3/2020	11/26/2020	11/3/2020	11/26/2020
6	36 Inch RCP Culvert Class III	11/26/2020	1/1/2021	11/26/2020	1/1/2021	11/26/2020	1/1/2021
+ 6.1	Furnish RCP Materials	11/26/2020	12/3/2020	11/26/2020	12/3/2020	11/26/2020	12/3/2020
+ 6.2	Excavate RCP Trench	12/3/2020	12/14/2020	12/3/2020	12/14/2020	12/3/2020	12/14/2020
+ 6.3	Install RCP Pipe	12/14/2020	12/18/2020	12/14/2020	12/18/2020	12/14/2020	12/18/2020
+ 6.4	Backfill RCP Pipe	12/18/2020	1/1/2021	12/18/2020	1/1/2021	12/18/2020	1/1/2021

Lesson 12 Review

1. Under the Job Properties > Schedule tab, which setting can be enabled to account for plugged costs (e.g., for subcontractors)?
 - a. Resource price/unit
 - b. Expense Costs
 - c. Schedule ID
 - d. Actuals

2. For InEight Estimate schedule integration with Primavera, which of the following can be sent from your estimate to the schedule? (Select all that apply)
 - a. Activity data
 - b. Cash Flow graphs
 - c. Resource data
 - d. Cost data
 - e. Price data

3. The Schedule Plug Days option allows you to define the duration in the schedule separate from the duration defined for your cost items on the Production tab.
 - a. True
 - b. False

Lesson 12 Summary

As a result of this lesson, you can:

- Set up scheduling options
- Update Schedule from InEight Estimate
- Update InEight Estimate from Schedule
- Manage changes between estimate and schedule

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LESSON 13 – CASH FLOW

Lesson Duration: 25 Minutes

Lesson Objectives

After completing this lesson, you will be able to:

- Interpret cash flow and resource utilization on the Cash Flow graph
- Select Cash Flow Options
- Change Cash Flow Display Settings

Lesson Topics

13.1 CASH FLOW OVERVIEW

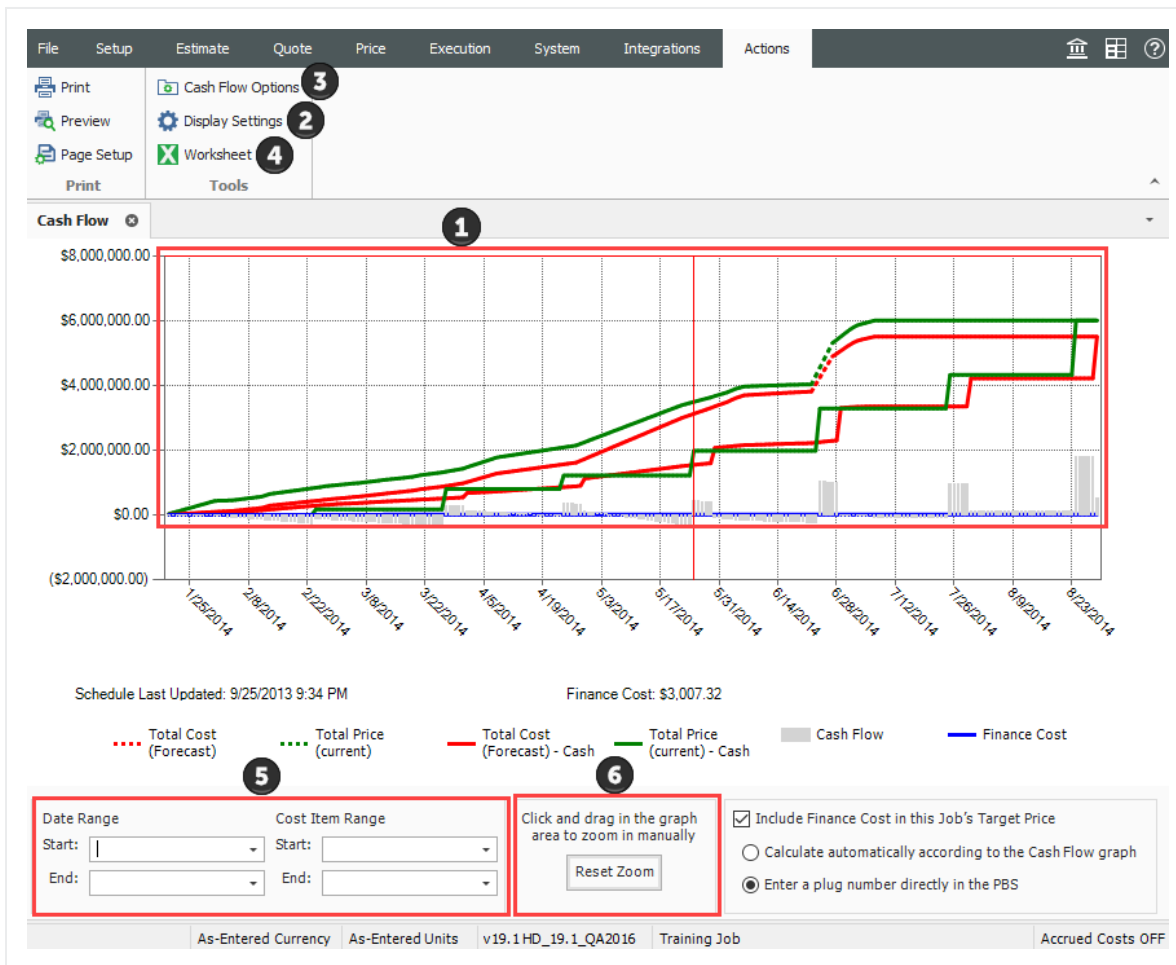
The Cash Flow form provides a graphical representation of the cash flow and resource utilization of your project, so you can quickly assess financing and resource needs.

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.

In order 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.

Overview – Cash Flow Form

Section	Description
1	The graph displays the projected cash flow of your project, along with job financing expense, individual cost category costs and resource utilization. <ul style="list-style-type: none"> • The x-axis measures time • The left y-axis measures amounts • The right y-axis measures quantities (when resource utilization is displayed) • All graphs depicted on the Cash Flow form can be displayed based on Pay Quantity or Forecast (T/O) Quantity
2	Click on the Display Settings icon to indicate what to display on the graph. <ul style="list-style-type: none"> • You can display total costs and price or specific cost categories • You can also set the display settings to report on Resource Utilization
3	Click on the Cash Flow Options icon to specify revenue timing, cost timing, and cost of money.
4	Click the Excel icon to export the numerical data represented on the graph into an Excel spreadsheet where you can run additional analysis.
5	You can filter the Cash Flow graph by date range or by a range of cost items.
6	Click and drag over the graph to zoom in on a particular section. Click the Reset Zoom button to restore the graph to its original state.



13.2 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.

To open the Cash Flow Options, click on the **Cash Flow Options** icon in the Tools section of the Actions tab.

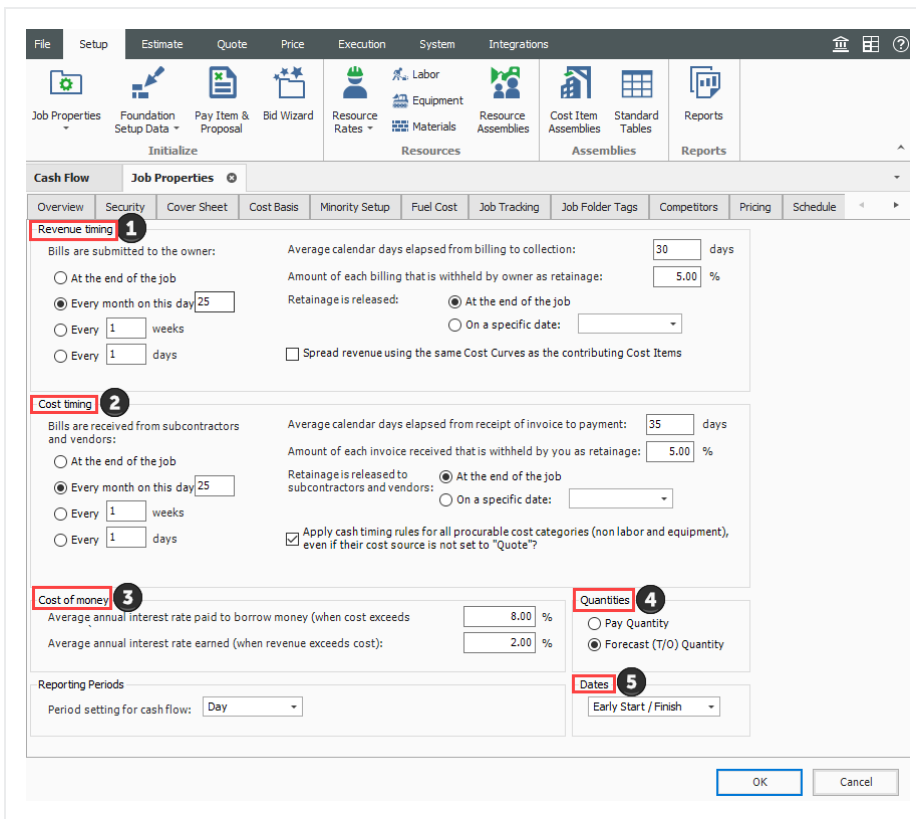
TIP You can also access Cash Flow Options from the Setup > Job Properties > Cash Flow tab.

1. **Revenue timing:** Revenue is the amount of money actually paid to a contractor by the client for the completion of project deliverables. This section contains options to specify when and how often payment is received.
2. **Cost Timing:** Cost is the amount of money expended to complete the scope of the project. This section contains options to specify when and how often you pay contractors, subcontractors and vendors.

NOTE

To include any of your costs in your cash flow (including indirect costs), they need to be scheduled

3. **Cost of Money:** Represents the financing cost to fund the project. This section contains fields to specify interest rates you pay for the money you borrow, and interest rates you earn for money invested, to determine a total Finance Cost.
4. **Quantities:** Allows you to calculate cash flow based on pay quantities or forecast (T/O) quantities.
5. **Dates:** By default, the scheduled Early Start and Early Finish dates of each cost item (and its resource employments) as listed in the CBS Register, provide the timing of the expenses, revenue, and costs that show up on the Cash Flow graph. You have the option to base cash flow timing on Start/Finish dates or Late Start/Finish dates.

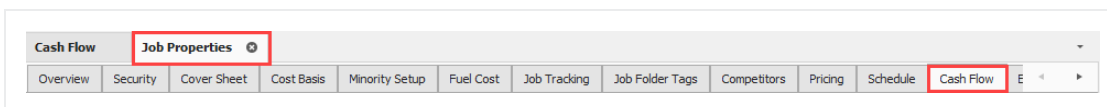


13.2.0.1 Cash Flow Options Set Up

The following steps walk you defining settings on the Cash Flow Options form.

Step by Step — Cash Flow Options Setup

1. In the **E101 – Training Job**, from the Estimate tab, select **Setup >Job Properties >Cash Flow**.



- You will see the default options already there
 - You will adjust a few of those options
2. Change your Revenue timing to **Every month on the 10th**.

- The average calendar days from billing to collection should be set to 25 days

3. For Cost timing, bills are received from subcontractors and vendors **Every month on the 25th.**

- Average calendar days elapsed from receipt of invoice to payment should be set to 30 days


4. For Cost of money, enter **10%** for the Average annual interest rate paid to borrow money (when cost exceeds revenue) and **2%** for Average annual interest rate earned (when revenue exceeds cost).

5. Leave all remaining options as originally defaulted.

13.3 CASH FLOW DISPLAY SETTINGS

13.3.1

13.3.2 Cost Items and Cost Categories

The Cash Flow Display Settings allow you to control what information displays on the Cash Flow graph. To open the Display Settings click on the **Actions > Display Settings**  icon in the Tools section.

Overview – Cash Flow Display Settings – Cost Items and Cost Categories

Section	Description
1	You can save your display settings for future use.
2	Select how the graph measures the timing of your cash flow. Options include: Day, Week, Month, Quarter, and Year.
3	<p>Under the Cost Items section, you can select:</p> <ul style="list-style-type: none"> • Total Cost (Forecast): The total cost of your scheduled cost items, based on when your costs are accrued (when your cost items are scheduled). This is displayed as a dashed line on the graph • Total Price (current): The total revenue of your pay items, based on when the revenue is earned (when your cost items are scheduled). This is displayed as a dashed line on the graph • Total Cost (Forecast) - Cash: The total cost of your scheduled cost items, reflecting the cost timing you specify in the Cash Flow Options. This is displayed as a solid line on the graph • Total Price (current) - Cash: The total revenue of the pay items, reflecting the revenue timing you specify in the Cash Flow Options. This is displayed as a solid line on the graph • Cash Flow: Displays the difference between your Total Cost - Cash and Total Price - Cash values, so you can see if you are making or losing money • Finance Cost: Displays the Cost of Money amount calculated from the settings you specify in the Cash Flow Options
4	<p>You can check the Estimated box for any specific cost categories you need to display.</p> <ul style="list-style-type: none"> • The other check boxes are used for InEight Estimate Performance

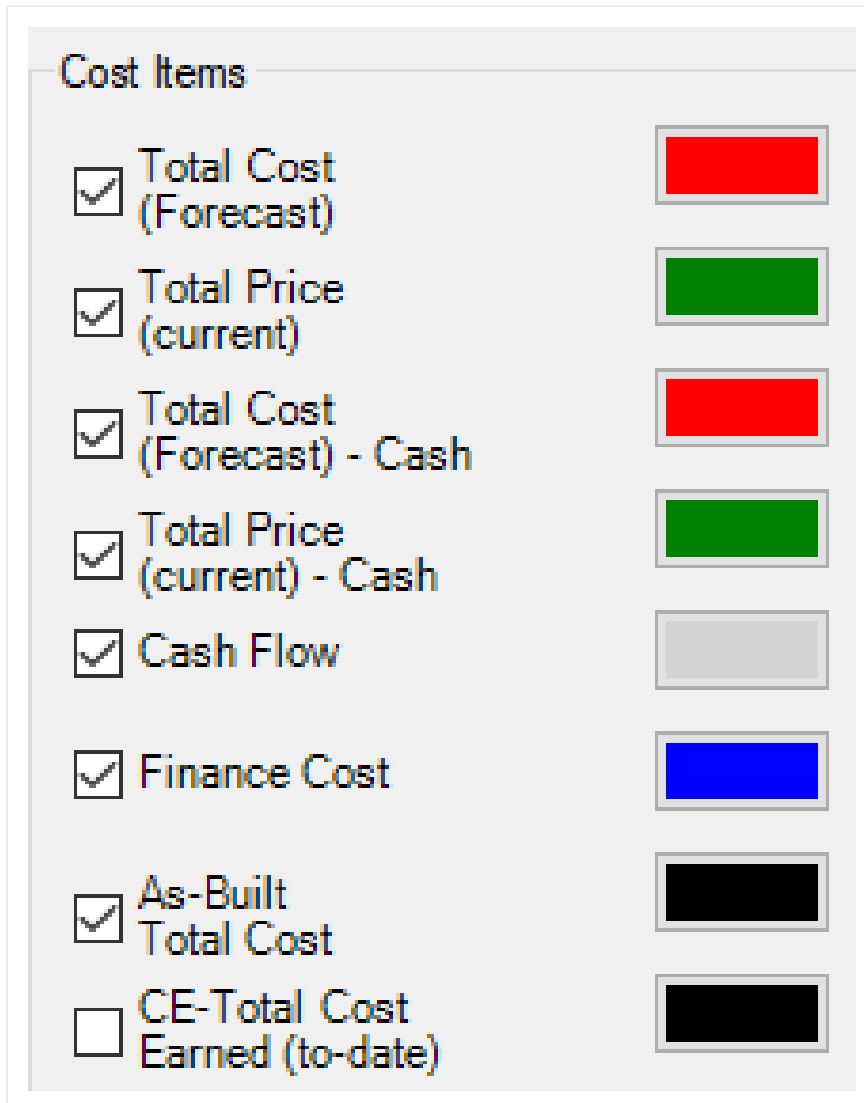
13.3.2.1 Cash Flow Display Set Up

The following steps walk you through setting up your Cash Flow Display Settings.

Step by Step — Cash Flow Display Settings Set Up

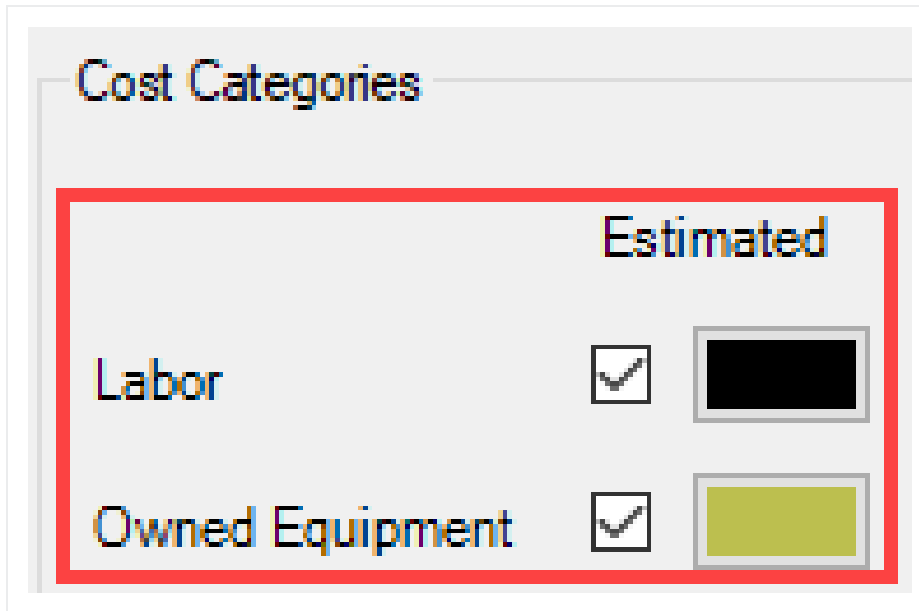
1. In the **E101 – Training Job**, from the Estimate tab, select **Cash Flow** from the Schedule section.
2. On the **Actions** tab, select **Display Settings** to open the Display Settings window.
3. From the Period drop-down list, select **Week**.
4. Under the Cost Items section, make sure the following are selected:
 - Total Cost (Forecast)
 - Total Price (Forecast)
 - Total Cost (Forecast) – Cash
 - Total Price (Forecast) – Cash
 - Cash Flow

- Finance Cost



Item	Checked	Color
Total Cost (Forecast)	<input checked="" type="checkbox"/>	Red
Total Price (current)	<input checked="" type="checkbox"/>	Green
Total Cost (Forecast) - Cash	<input checked="" type="checkbox"/>	Red
Total Price (current) - Cash	<input checked="" type="checkbox"/>	Green
Cash Flow	<input checked="" type="checkbox"/>	Grey
Finance Cost	<input checked="" type="checkbox"/>	Blue
As-Built Total Cost	<input checked="" type="checkbox"/>	Black
CE-Total Cost Earned (to-date)	<input type="checkbox"/>	Black

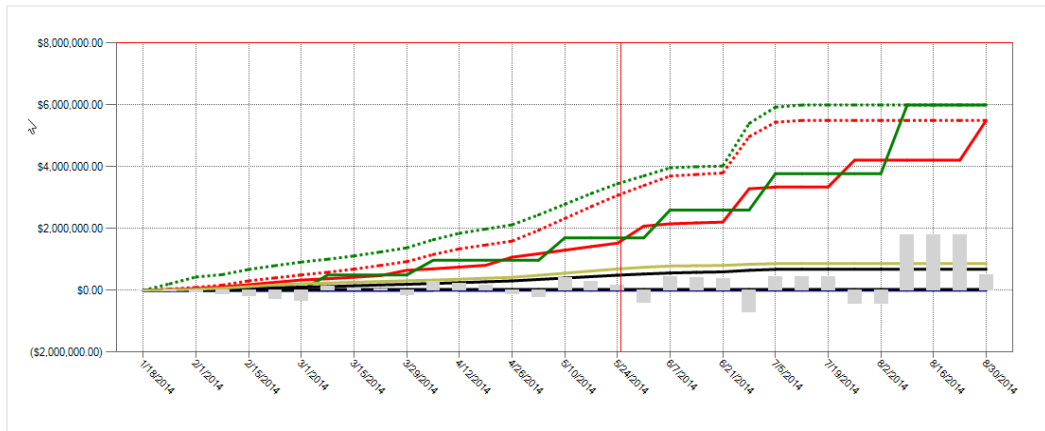
5. Under the **Cost Categories** section, check the **Estimated** checkbox for the Labor and Owned Equipment categories.



6. Click **OK** to close the Display Settings window.

- Your Total Cost (Forecast) displays as a dashed red line, indicating your accrued costs based on when your cost items are scheduled and the assigned cost curves for each cost item.
- Your Total Price (current) displays as a dashed green line, indicating the revenue you've earned, based on the timing of your pay items
- Your Total Cost (Forecast) – Cash displays as a solid red line, indicating your costs, based on when your cost items are scheduled *and* the cost timing defined in Cash Flow Options
- Your Total Price (current) – Cash displays as a solid green line, indicating your revenue, based on the timing of your pay items *and* the revenue timing defined in Cash Flow Options
- Your Cash Flow displays grey bars indicating when your cash flow is negative or positive

- Your Finance Cost displays as a blue line on the graph



- To filter your graph by date range, click on the **Start** drop-down arrow and select a start date of your date range filter.

Thursday, December 27, 2018

February 2014

SU	MO	TU	WE	TH	FR	SA
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	1
2	3	4	5	6	7	8

Clear

Date Range: 3/1/2014

Start: Start:

End: End:

- Click on the **End** drop-down arrow and select an end date of your date range filter.


- Your graph now only includes your cost items that fall within the specified date range
9. To remove the filter, click in the **Start** field and press the **Backspace** key.
 10. Do the same for the End field.

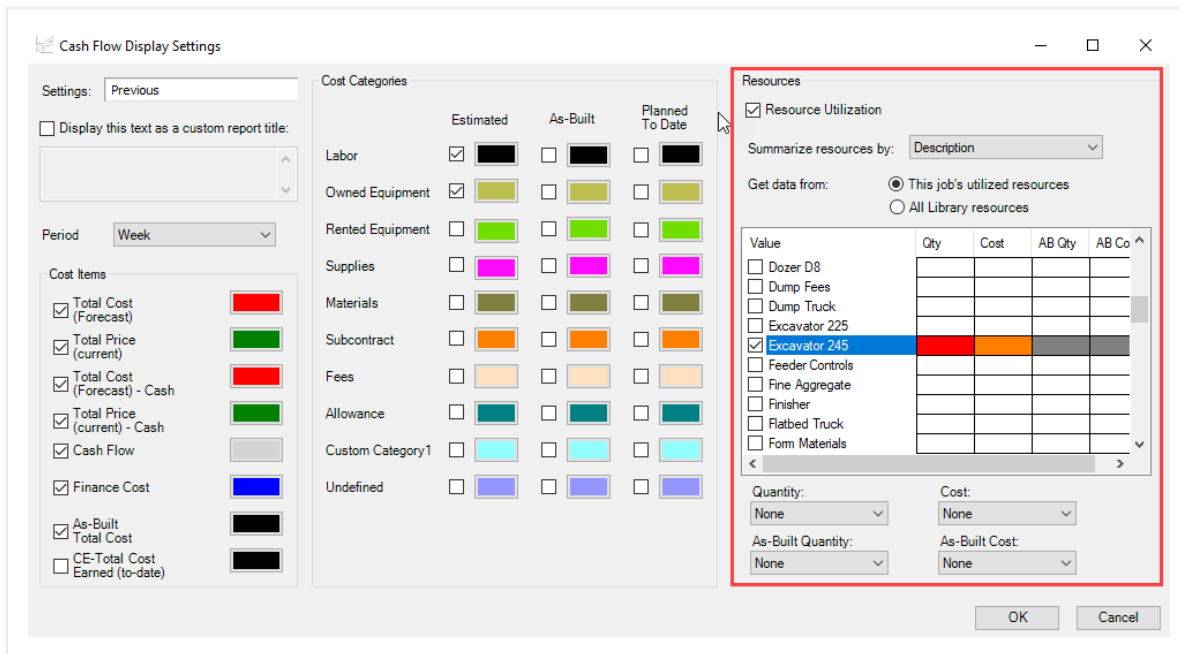
13.3.3 Resource Utilization

You can also use the Cash Flow graph to report on resource utilization. For example, you may want to run a report that displays a work hours curve for a particular labor trade or to see the peak usage times for a particular piece of heavy equipment.

You can run resource utilization graphs based off of any of the following:

- Resource Type
- Resource Code
- Description
- Organizational Category
- Tag 1, 2, and 3
- Quote Group
- Account Code and Cost Item Account Code
- Fuel Type

You set up your resource utilization settings from the same Display Settings window you use for setting up Cash Flow, **Display Settings**  in the Tools section of the Actions menu.



13.3.3.2 Resource Utilization Display Set Up

The following steps walk you through setting up your Cash Flow graph to report on Resource Utilization.

Step by Step — Resource Utilization Display Setup

1. In the **E101 – Training Job**, from the Estimate tab, select **CashFlow** from the Schedule section.
2. On the Actions tab, select **Display Settings** to open the Display Settings window.
3. Make sure the all checkboxes are unchecked under the Cost Items and Cost Categories sections.
4. Under the Resources section, check the **Resource Utilization** checkbox.
5. From the Summarize resources by drop-down list, select **Description**.

Resources

Resource Utilization

Summarize resources by: Description v

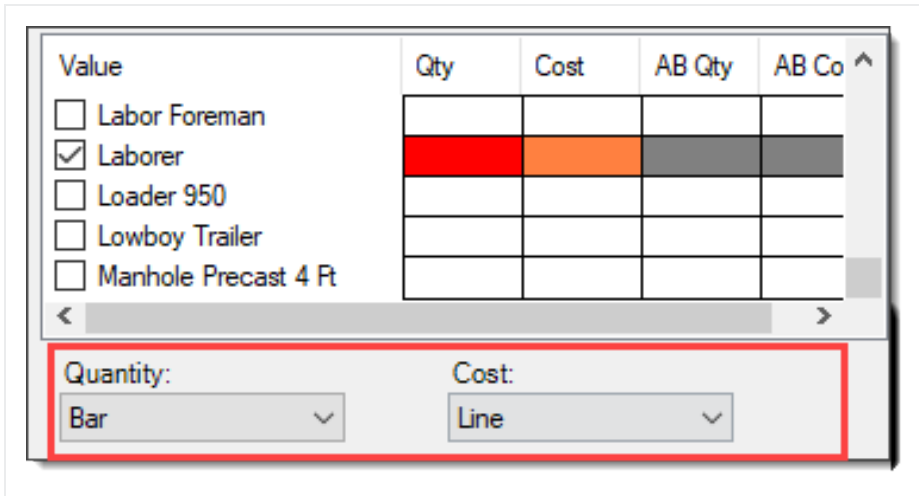
Get data from: This job's utilized resources
 All Library resources

6. From the resulting list of Values, select **Laborer**.
7. Click in the **Qty** field for the selected value and select a color of your choice.
 - In this case the Qty represents the work hours for your Laborer resource
8. Click in the **Cost** field for the selected value and select a different color of your choice.

Get data from: This job's utilized resources
 All Library resources

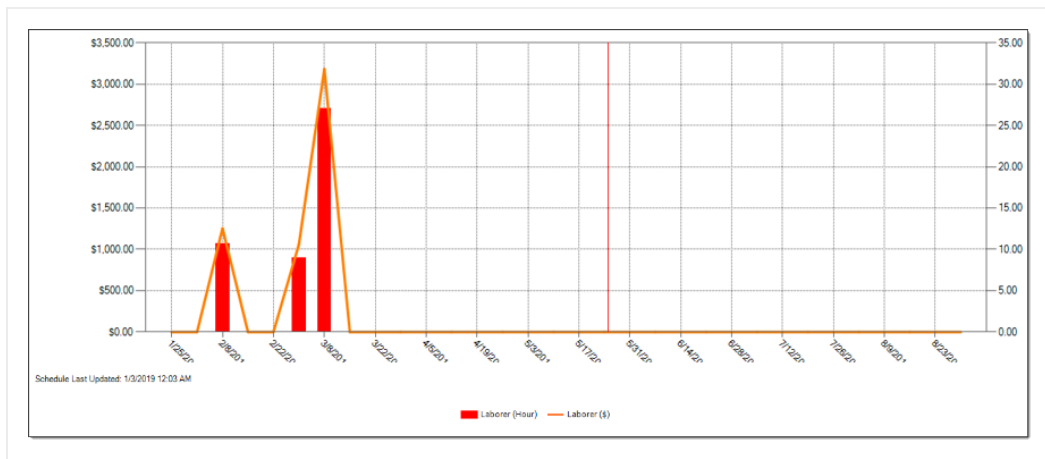
Value	Qty	Cost	AB Qty	AB Co [^]
<input type="checkbox"/> Labor Foreman				
<input checked="" type="checkbox"/> Laborer				
<input type="checkbox"/> Loader 950				
<input type="checkbox"/> Lowboy Trailer				

9. From the **Quantity and Cost** drop down lists, you can select how your quantities and costs will display on the graph. In this case select the Quantity to display as a **Bar** and Cost to display as a **Line**.



10. Click **OK** to close the Display Settings window.

- The graph now displays the utilization of your Laborer resource, showing the work hours and costs used over time



The graphs displayed on the Cash Flow form are based on the estimated cost of each cost item and its resource employments (in the case of resource utilization).

Lesson 13 Review

1. Under what cash flow form can you set up your revenue and cost timing?
 - a. Cash Flow Options
 - b. Display Settings
 - c. Worksheet
 - d. Page Setup

2. By default, the red dashed line on the Cash Flow graph represents the:
 - a. Total Cost (Forecast)
 - b. Total Price (current)
 - c. Total Cost (Forecast) – Cash
 - d. Total Price (current) - Cash

3. In the Cash Flow Display Settings, Resource Utilization allows you to view a graphical summarization of your resources by which of the following? (Select all that apply)
 - a. Resource File Description
 - b. Resource Type
 - c. Resource Code
 - d. Description
 - e. Wage Zone
 - f. Organizational Category

Lesson 13 Summary

As a result of this lesson, you can:

- Interpret cash flow and resource utilization on the Cash Flow graph
- Select Cash Flow Options
- Change Cash Flow Display Settings



LESSON 14 – INEIGHT ESTIMATE CALCULATORS

Lesson Duration: 20 Minutes

Lesson Objectives

After completing this lesson, you will be able to:

- Use the Haul Calculator
- Use the Trench Calculator
- Use the In-Field Calculator

Lesson Topics

14.1 HAUL CALCULATOR

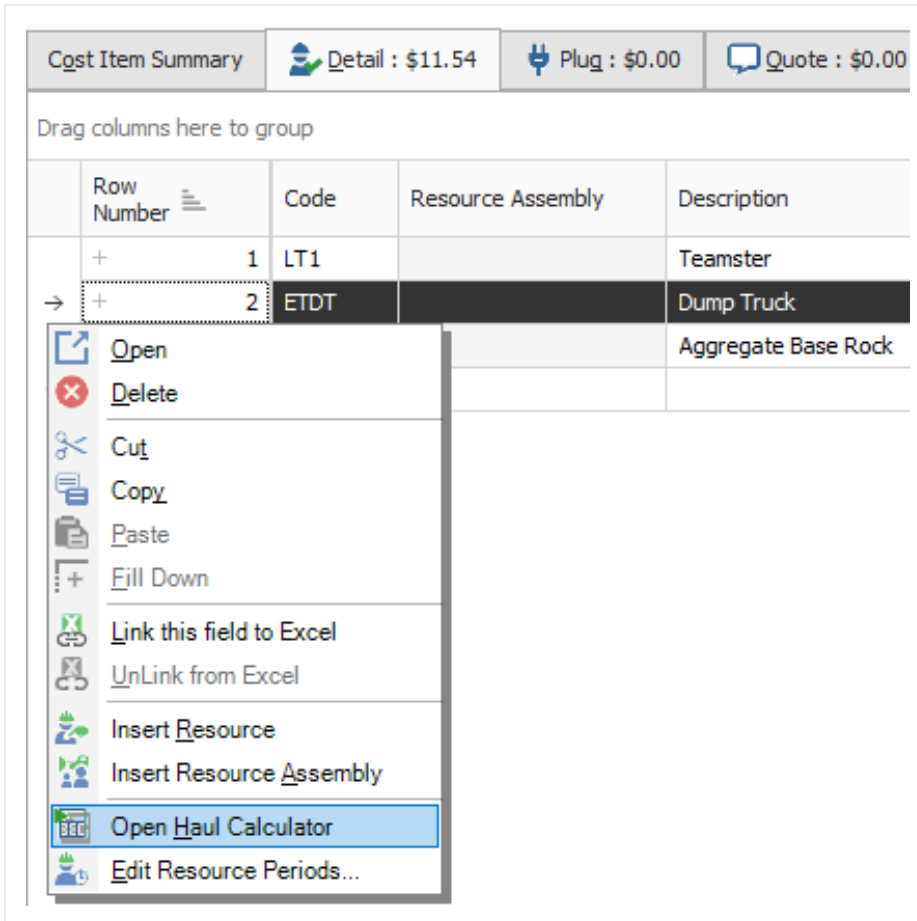
The **Haul Calculator** allows you to enter the specifics of up to three haul routes (distance, travel speed, etc.). Once entered, you can either:

- Calculate the number of trucks required to complete the haul in a set amount of time, or
- Calculate how long it will take to complete the haul with a set number of trucks

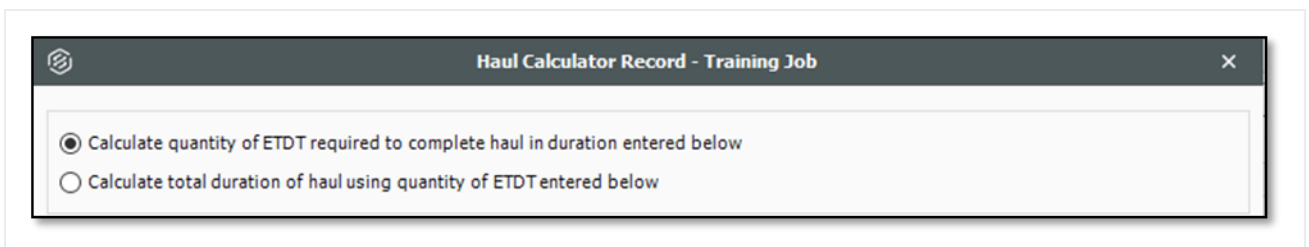
The following activity walks step by step through using the Haul Calculator to calculate the number of trucks needed for a cost item.

Step by Step — Haul Calculator – Calculate Quantity of Trucks

1. Open the **Training Job** and from the Estimate tab, select **Cost Breakdown Structure**.
2. Open cost item **4.1 – Furnish & Haul Base Material**.
3. On the Cost Item Record, click the **Detail tab**.
4. Right click on the **ETDT – Dump Truck** row header and select **Open Haul Calculator**.



- On the Haul Calculator, select the **Calculate quantity of ETDT required to complete haul in duration entered below** radio button. (ETDT is the resource code for the Dump Truck you selected.)



- For the **Haul Distance**, type **5**.
- Enter an **Average Payload (Ton)** of **30**.
- For **Load Time (Minutes)**, type **3**.
- Enter a **Travel Speed Full** of **35 Mile/Hour**.

10. For **Dump Time (Minutes)**, type 2.
11. Enter a **Travel Speed Empty** of 45 Mile/Hour. Notice this calculates a cycle time of 20.24.
12. Enter a **Work Efficiency** of 90 percent.

Route 1	
Quantity (Ton)	45,000.00
Haul Distance - One Way (Mile)	5.00
Average Payload (Ton)	30.00
Total Loads	1,500.00
Load Time (Minutes)	3.00
Travel Speed Full (Mile/Hour)	35.00
Dump Time (Minutes)	2.00
Travel Speed Empty (Mile/Hour)	45.00
Cycle Time (Minutes)	20.24
Work Efficiency (%)	90.00
Total Hauler Hours	562.17
Hours Per Shift	8.00

- The calculator shows a result of 1.56 concurrent haulers

Results

Quantity of resource ETDT	1.56	0.00	0.00	<input style="border: 2px solid red;" type="text" value="1.56"/>	Concurrent Haulers
Total duration (Hours)	0.00	0.00	0.00	<input style="border: 2px solid red;" type="text" value="360.00"/>	Hours

13. Click **OK**.
14. Your cost item now shows a quantity of 1.56. Round up the Quantity to **2**. Also, adjust the Teamster Quantity to **2** (if needed).

Row Number	Code	Resource Assembly	Description	Quantity (Less Waste)	Waste % Add-on	Quantity	Unit of Measure
+	1	LT1	Teamster			<input style="border: 2px solid red;" type="text" value="2.00"/>	Each
+	2	ETDT	Dump Truck			<input style="border: 2px solid red;" type="text" value="2.00"/>	Each
+	3	MBR	Aggregate Base Rock	45,500.00	5.00	47,775.00	Ton

Step by Step — Haul Calculator – Calculate Total Duration

1. Open the **Training Job** and from the Estimate tab, select **Cost Breakdown Structure**.
2. Open cost item **4.1 – Furnish & Haul Base Material**.
3. On the Cost Item Record, click the **Detail** tab.
4. Change your Teamster and Dump Truck quantities back to **2 each**.
5. Right click on the **ETDT – Dump Truck** row header and select **Open Haul Calculator**.
6. On the Haul Calculator, select the **Calculate total duration of haul using quantity of ETDT entered below** radio button.
 - With the previous information you entered still there, the calculator calculates a total duration of 281.08 hours

	Route 1	Route 2	Route 3	TOTAL	
Quantity (Ton)	45,000.00	0.00	0.00	45,000.00	Ton
Haul Distance - One Way (Mile)	5.00	0.00	0.00	5.00	Mile
Average Payload (Ton)	30.00	0.00	0.00	30.00	Ton
Total Loads	1,500.00	0.00	0.00	1,500.00	
Load Time (Minutes)	3.00	0.00	0.00	3.00	Minutes
Travel Speed Full (Mile/Hour)	35.00	0.00	0.00	35.00	Mile/Hour
Dump Time (Minutes)	2.00	0.00	0.00	2.00	Minutes
Travel Speed Empty (Mile/Hour)	45.00	0.00	0.00	45.00	Mile/Hour
Cycle Time (Minutes)	20.24	0.00	0.00	20.24	Minutes
Work Efficiency (%)	90.00	100.00	100.00	90.00	%
Total Hauler Hours	562.17	0.00	0.00	562.17	Hours
Hours Per Shift	8.00	8.00	8.00	8.00	

Results					
Quantity of resource ETDT	0.00	0.00	0.00	2.00	Concurrent Haulers
Total duration (Hours)	281.08	0.00	0.00	281.08	Hours

7. Click **OK**.

- The Hours field on the Production tab updated to 281.08
- Your ETDT Dump Truck quantity remains at 2

14.2 TRENCH CALCULATOR

The **Trench Calculator** allows you to quickly calculate trench, pipe, and bedding values. You can perform pipe-related take-off by defining the details of the trench (e.g., length, depth, width, hinge elevation, backslope, and swell factor), the pipe (diameter, elevation, and waste factor), and up to four beddings.

With this information, the Trench Calculator can automatically calculate:

- Total excavation volume (neat-line)
- Total excavation volume (including swell/shrinkage)

- Total pipe to purchase
- Lift Volume (for up to four beddings)
- Lift Weight (for up to four beddings)

You can use these calculations to define certain cost item setup data:

- You can use the Total Excavation Volume that is calculated as the quantity of the cost item
- You can use the Total pipe to purchase calculation as the quantity of a resource (e.g., pipe) that has been employed to the cost item
- You can use the Lift Volume or Lift Weight that is calculated as the quantity of a resource employed to the cost item in either cubic yards or tons
- You can click the Toggle English / Metric button at the bottom of the dialog to switch between the English and Metric systems for entering data

TIP

You can access the Trench Calculator from the Actions tab of a Cost Item Record

NOTE

When copying cost items in a job or from job to job, the Trench Calculator variable data is included with the data being copied. When a cost item is copied to the clipboard, Trench Calculator variable data is also included.

14.2.1 Trench Calculator – Trench Tab

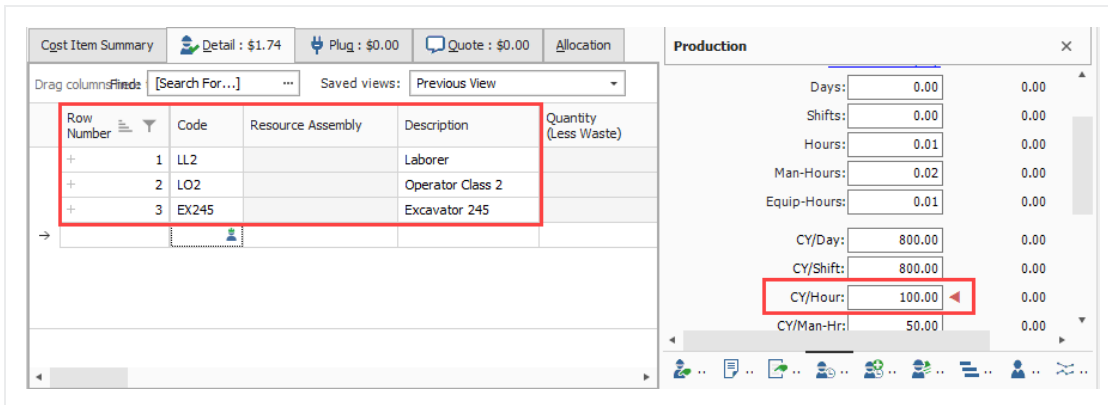
The following steps walk through using the Trench Calculator to take-off excavation volume.

Step by Step — Trench Calculator – Trench

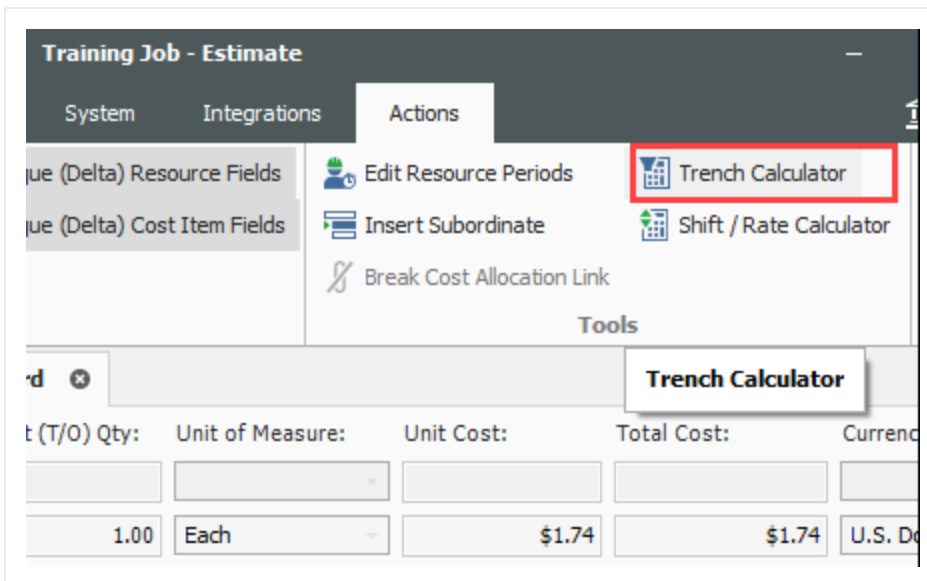
1. Open the **Training Job** and from the Estimate tab, select **Cost Breakdown Structure**.
2. Create a new cost item from the bottom row of your CBS and call it **24" Pipe**.
3. Add the following three subordinates and update their Units of Measure:
 - Excavate Trench: **CY**
 - Install Pipe: **LF**
 - Backfill Trench: **CY**
4. Open the **Excavate Trench** Cost Item Record. Add the following resources:

- **LL2 Laborer – 1**
- **LO2 Operator Class 2 – 1**
- **EX245 Excavator 245 – 1**

5. Adjust the Production to: **100 CY/Hour**.



6. On the Cost Item Record's Actions tab, select **Trench Calculator**.



7. For **Trench Length**, type **1000.00** feet.
8. For **Trench Width** (at the bottom) type **4.00** feet.
9. Enter a **Trench Depth** of **10.00** feet.
10. Enter a **Hinge Elevation** of **5.00** feet.

11. Enter a **Backslope** of **45** degrees.
12. Define the **Material Swell/Shrinkage Factor** (fraction expressed as a decimal) at **.10**.
 - You can select either a “neat-line” total volume or include swell/shrinkage
13. Select the “Total excavated volume (including swell/shrinkage)” checkbox.

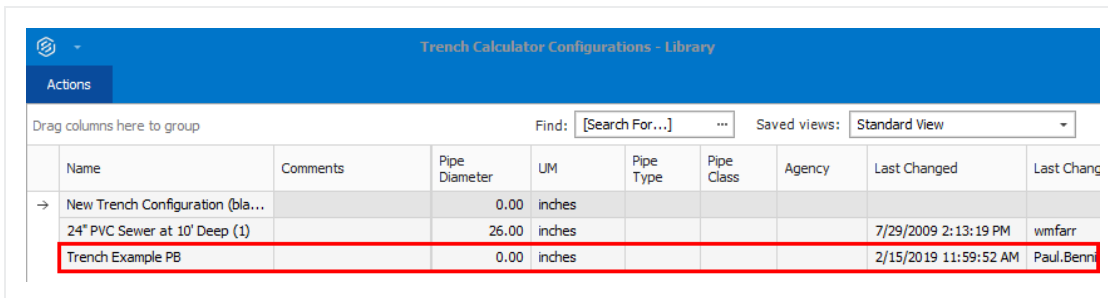
14. Click **Save Configuration to Library** and save the Trench calculator as **Trench Example** with your initials.
15. Click **OK**.

14.2.2 Trench Calculator – Pipe Tab

You can also use the Trench Calculator to take off how much piping and bedding you need for the trench.

Step by Step — Trench Calculator – Pipe

1. On the CBS Register, adjust the Forecast T/O Quantity for the Install Pipe cost item to **1000 LF**.
 - Assume this quantity is based off manual take-off calculations you already did
2. Open the **Install Pipe** Cost Item Record.
3. Add the Resource Assembly of **CPIPE - Pipe Crew** and adjust the production to **300 LF / Day**.
4. On the Cost Item Record's Actions tab, select **Trench Calculator**.
5. Select **Load Configuration from Library**.
6. Select **Trench Example** (with your initials).



Name	Comments	Pipe Diameter	UM	Pipe Type	Pipe Class	Agency	Last Changed	Last Chang
→ New Trench Configuration (bla...		0.00	inches					
24" PVC Sewer at 10' Deep (1)		26.00	inches				7/29/2009 2:13:19 PM	wmfarr
Trench Example PB		0.00	inches				2/15/2019 11:59:52 AM	Paul.Benn

7. Click **OK**.
8. On the Trench Calculator, select the **Pipe** tab.
9. Enter the following for the size and position of the pipe:
 - Pipe exterior diameter: **26.00** inches
 - Pipe center elevation (from bottom): **19.00** inches
 - Waste factor: **10%**
10. Click on the resource icon to pull up the Resource Rate Register.
11. Select the Installed Material tab.
12. Select **MPP24 Pipe 24" PVC SDR35**, then click **OK**.
 - The Pipe variables you entered should match the following image:

13. Click **Save Configuration to Library** and save the Trench calculator as **Trench Example** with your initials.
14. When prompted to overwrite the existing saved file, click **Yes**.
15. Click **OK** to close the Trench Calculator.

14.2.3 Trench Calculator – Beddings Tab

The following steps walk you using the Trench Calculator to calculate bedding take-offs.

Step by Step — Trench Calculator – Beddings

1. Back on the CBS Register, adjust the Forecast T/O Quantity for **Backfill Trench** to **2300 CY**, based on manual calculations.
2. Open the **Backfill Trench** Cost Item Record.

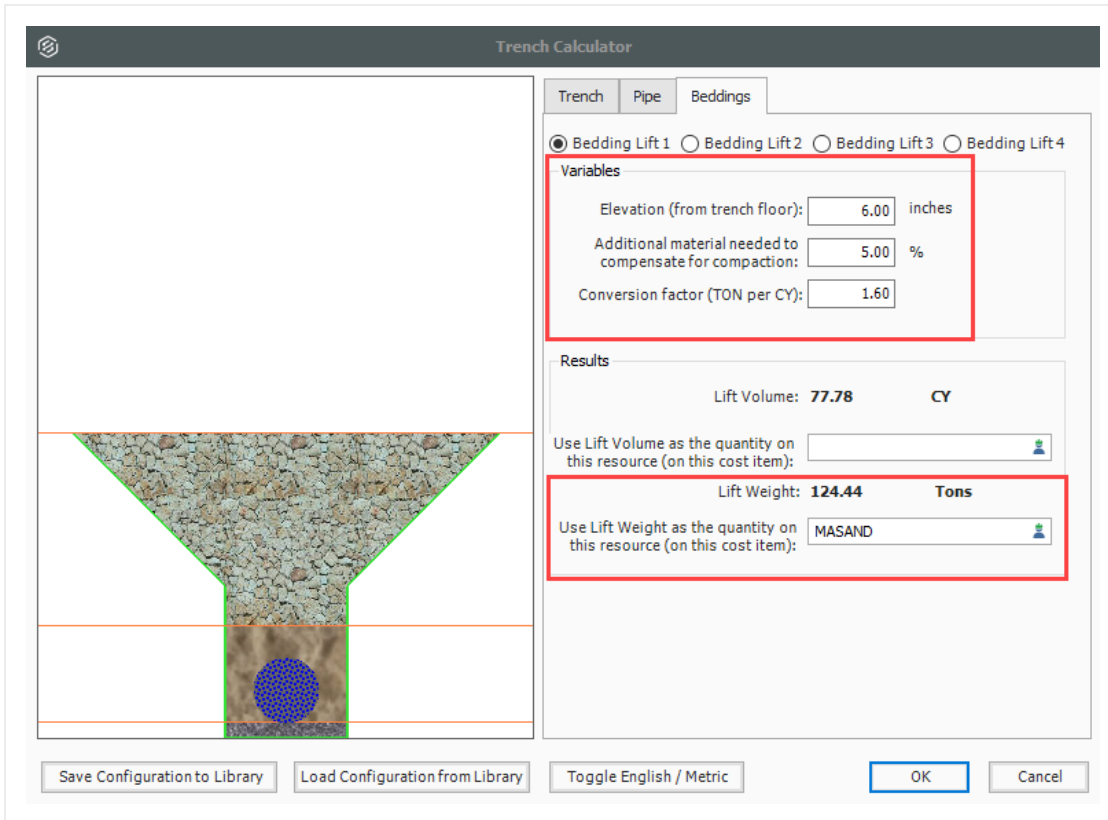
3. Add the following resources:
 - **LL2 Laborer – 3**
 - **LO2 Operator Class 2 – 1**
 - **RPC Plate Compactor – 1**
 - **EL950 Loader 950 – 1**
4. Adjust the Production to **160 CY/Day**.
5. From the Cost Item Record’s Actions tab, select **Trench Calculator**.
6. Select **Load Configuration from Library**
7. Select **Trench Example** (with your initials), then click **OK**.
8. On the Trench Calculator, select the **Beddings** tab.
9. On the Beddings tab, you can define up to four beddings to backfill the trench
 - The variables you enter will determine how much bedding you need
10. Enter the following variables for each bedding:

	Bedding Lift 1	Bedding Lift 2	Bedding Lift 3
Elevation (from trench floor)	6.00	38.00	76.00
Additional material needed	5.00	5.00	5.00
Conversion factor	1.60	1.70	1.60

- Under Results, you can match each of the Bedding Lifts with a material resource, by selecting the **resource** icon and selecting the resource you want to employ from the Material tab

11. Selecting the resource from the Tons selection field, select the following materials for each bedding:

	Resource Code	Resource Description
Bedding Lift 1	MASAND	Sand
Bedding Lift 2	MAFA	Fine Aggregate
Bedding Lift 3	MACA1-1/2	Coarse Aggregate



12. Click **OK**.

- Note that the pipe and bedding materials are added to the cost item with their quantities

Row Number	Code	Resource Assembly	Description	Quantity (Less Waste)	Waste % Add-on	Quantity	Unit of Measure
+ 1	LL2		Laborer			3.00	Each
+ 2	LO2		Operator Class 2			1.00	Each
+ 3	RPC		Plate Compactor			1.00	Each
+ 4	EL950		Loader 950			1.00	Each
+ 5	MASAND		Sand	124.44	0.00	124.44	Ton
+ 6	MAFA		Fine Aggregate	593.66	0.00	593.66	Ton
+ 7	MACA1...		Coarse Aggregate ...	3,327.59	0.00	3,327.59	Ton

Exercise 14.1 – Trench Calculator

In this exercise, you will practice using the Trench Calculator to take-off piping and bedding materials. Complete the following steps:

1. In the **Training Job**, create a new cost item called **Underground Pipe**.
2. Give the cost item a quantity and unit of measure of **1640 Linear Feet**.
3. Open the new cost item and open the **Trench Calculator**.
4. On the **Trench tab**, enter the variables for the trench:

Trench length	1000 feet
Trench width (at bottom)	4 feet
Trench depth	10 feet
Hinge elevation	5 feet
Backslope	45 degrees
Material swell/shrinkage factor	0.10 (decimal)

- Do NOT check the box to bring in volume shrinkage.

5. Select the **MPR36** material resource from the drop-down Results list.
6. On the **Beddings** tab, enter bedding variables.

Bedding lift 1	
Elevation (from trench floor)	6 inches
Additional material needed to compensate for compaction	5.00%
Conversions factor (Ton per CY)	1.3

Bedding lift 1

Bedding material resource (Tons)	MASAND
----------------------------------	--------

Bedding lift 2

Elevation (from trench floor)	38 inches
Additional material needed to compensate for compaction	5.00%
Conversions factor (Ton per CY)	1.1
Bedding material resource (Tons)	MAFA

Bedding lift 3

Elevation (from trench floor)	76 inches
Additional material needed to compensate for compaction	5.00%
Conversions factor (Ton per CY)	1.1
Bedding material resource (Tons)	MACA1-1/2

7. Select **OK** and confirm that the pipe material and bedding materials populated the cost item.

You should end up with the following results

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:

PI Assignment:
PI Line Number:
PI Description:
Cost Segment:
Pay Quantity:
Cost Source:
Alternate:

Cost Item Summary
Detail : \$34.59
Plug : \$0.00
Quote : \$0.00
Allocation

Drag columns here to group Find: Saved views:

Row Number	Code	Resource Assembly	Description	Quantity (Less Waste)	Waste % Add-on	Quantity	Unit of Measure
+	1	MPR36	Pipe RCP 36 In	1,000.00	0.00	1,000.00	Linear Feet
+	2	MASAND	Sand	101.11	0.00	101.11	Ton
→	3	MAFA	Fine Aggregate	384.13	0.00	384.13	Ton
+	4	MACA1...	Coarse Aggregate ...	2,153.15	0.00	2,153.15	Ton

Production

Duration Driven Resources

Qty Driven Hourly Resources

[Customize Display](#)

Days: 0.00

Shifts: 0.00

Hours: 0.00

Man-Hours: 0.00

Equip-Hours: 0.00

LF/Day: 0.00

OK
Cancel
< Prev
Next >

Congratulations, you have completed this exercise!

14.3 IN-FIELD CALCULATOR

You can use the In-field Calculator to do simple mathematical calculations in any numeric field on records, registers, and tree lists. You use this calculator much like an Excel workbook field, by inserting the cursor in the field where you want to perform a calculation, then pressing the "=" key, followed by a valid arithmetic expression. To display the calculated result, you press the tab key. The resulting value is stored without the arithmetic expression used to calculate the value.

The following steps walk through using the In-field Calculator to calculate the area of how much sandblasting is needed for painting the steel bridge structure specified in the Training Job.

NOTE

The resulting field value is stored without the arithmetic expression used to calculate the value.

Step by Step — In-Field Calculator

1. Open the **Training Job** and from the Estimate tab, select **Cost Breakdown Structure**.
2. Scroll to find cost item **13.3 Sandblast**.
3. Click in the **Forecast (T/O) Quantity** field.

Item ID	Description	Forecast (T/O) Quantity	Unit
13	Paint Existing Steel Bridge Structure	1.00	Lump Sum
+ 13.1	Setup Equipment	1.00	Lump Sum
+ 13.2	Wash-Remove-Dispose of Water	25,000.00	Square Feet
+ 13.3	Sandblast	2500	Square Feet
+ 13.4	Apply Primer	25,000.00	Square Feet
+ 13.5	Paint Top Coat	25,000.00	Square Feet

4. Press the = key, then type **10*250**.

-	13	Paint Existing Steel Bridge Structure	1.00	Lump Sum
+	13.1	Setup Equipment	1.00	Lump Sum
+	13.2	Wash-Remove-Dispose of Water	25,000.00	Square Feet
+	13.3	Sandblast	=10*250	Square Feet
+	13.4	Apply Primer	25,000.00	Square Feet

5. Press the **Tab** key and it calculates the result.

Lesson 14 Review

1. The Haul calculator allows you to:
 - a. Calculate the number of trucks required to complete the haul in a set amount of time
 - b. Calculate how long it will take to complete the haul with a set number of trucks
 - c. Neither
 - d. Both

2. The Trench Calculator allows you to quickly calculate _____ values.
 - a. Trench
 - b. Pipe
 - c. Bedding
 - d. All of the above

3. For the in-field calculator, what symbol needs to be at the beginning of the math equation for it to calculate?
 - a. +
 - b. -
 - c. =
 - d. (

Lesson 14 Summary

As a result of this lesson, you can:

- Use the Haul Calculator
- Use the Trench Calculator
- Use the In-Field Calculator