



Explore API Documentation

SelfService_Estimate_ResourceCosts

Version 1.0

Last Modified: 11/14/2023

Last Modified By: Aaron Cohen

Change Log

This changelog only contains significant or notable changes to the revision. Any editorial type changes or minor changes are not included.

Revision	Change Date	Description	Modified By
1.0	5/8/2023	Initial draft	Aaron Cohen

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Overview

The **SelfService_Estimate_ResourceCosts** API provides Unit Costs by Cost Category for Resources.

This table includes a column for each cost by category for every Resources in the Jobs Resource Rate register. This table also used in determining Resource Employments cost category breakdown for non-unique resource employments. Costs by category for delta/unique resource employments can be found in the **EmploymentCosts** table.

Note for Labor type Resources, there will be an three records for each resource, one record for each Wage Scale

The ResourceCosts entity mainly includes three tables,

- SelfService_Estimate_ResourceCosts
- SelfService_Estimate_ResourceCostsCalculatedValues
- SelfService_Estimate_ResourceCostsReferencedData.

The SelfService_Estimate_ResourceCosts table contains Unit Costs by Cost Category as maintained within the Estimate application.

The SelfService_Estimate_ResourceCostsCalculatedValues table contains Resource data commonly calculated in some way for display purposes in the application and can provide a convenient way to reference data as it appears in the application without needing to transform it for display purposes.

The SelfService_Estimate_ResourceCostsReferencedData contains the values of the foreign key lookup values stored in reference tables and can provide a convenient way to reference data as it appears in the application without needing to lookup the foreign key values from a lookup table.

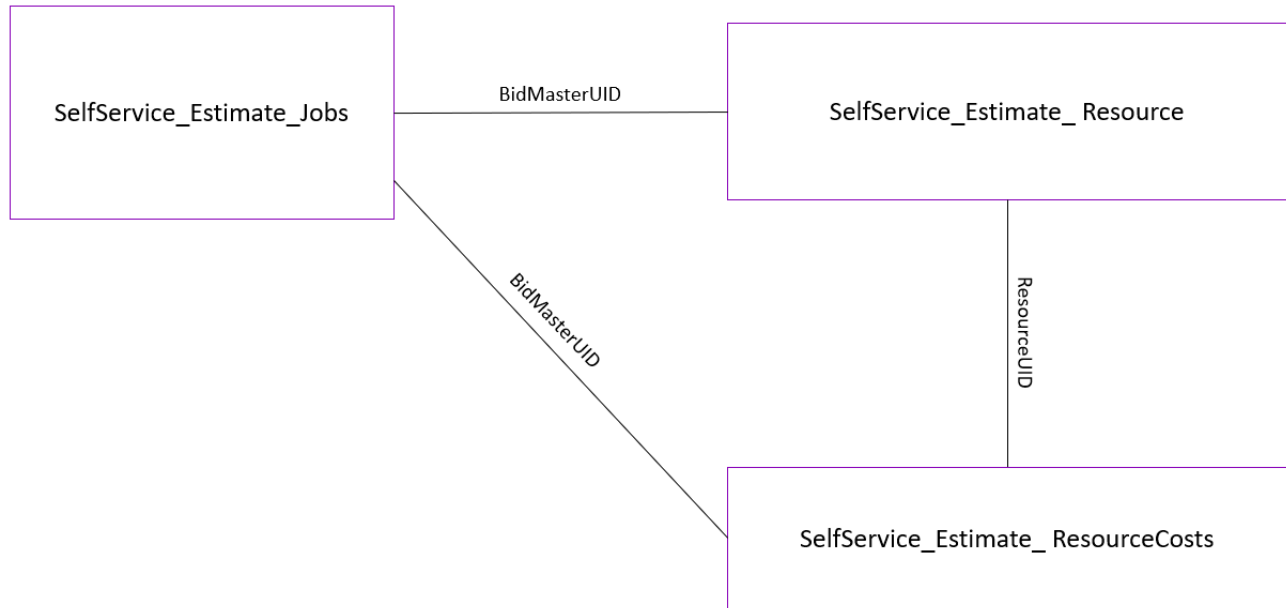
Relationships and Dependencies

From: Table	To: Table	Relationship	Cardinality ¹	Comment
ResourceCosts (RC)	Jobs (J)	RC.BidMasterJobUID = J.BidMasterJobUID	M:1	
ResourceCosts (RC)	Resource (R)	RC.ResourceUID = R.UID	1:1	

¹ 1:M = One to Many, 1:1 = One to One, M:1 = Many to one



SelfService_Estimate_ResourceCosts



API Detail

Direction	From Project Suite	
Pagination	50,000 Rows	
Frequency	All Reporting APIs are used by calling a GET method at an interval determined by the customer. InEight suggests using these APIs on an infrequent basis (once per day) to avoid potential performance impact to live systems when the returned data set could be large.	
Trigger Method(s)	All default OData filters are supported	
Average Payload Size	Depends on date range selected	
APIM Name	SelfService_Estimate_ResourceCosts	
Data Refresh/Delta/Incremental Loads		
Project Suite	Starting Version	23.4
	Ending Version	N/A

Supported Filters

All default OData filters are supported by this API.

Fields

Name	Type	Char Max Length	Numeric Precision	Date Precision	Product	PK
EstimateResourceCostId	bigint	8	19	0	Estimate	X
EstimateResourceCostUF	uniqueidentifier	16	0	0	Estimate	
EstimateResourceCostUID	uniqueidentifier	16	0	0	Estimate	
_UnitCost@0	float		53		Estimate	
_UnitCost@1	float		53		Estimate	
_UnitCost@2	float		53		Estimate	
_UnitCost@3	float		53		Estimate	
_UnitCost@4	float		53		Estimate	
_UnitCost@5	float		53		Estimate	
_UnitCost@6	float		53		Estimate	
_UnitCost@7	float		53		Estimate	
_UnitCost@8	float		53		Estimate	
_UnitCost@9	float		53		Estimate	
_UnitCost@10	float		53		Estimate	
_UnitCost@11	float		53		Estimate	
_UnitCost@12	float		53		Estimate	
_UnitCost@13	float		53		Estimate	
_UnitCost@14	float		53		Estimate	
_UnitCost@15	float		53		Estimate	
_UnitCost@16	float		53		Estimate	
_UnitCost@17	float		53		Estimate	
_UnitCost@18	float		53		Estimate	
_UnitCost@19	float		53		Estimate	
_UnitCost@20	float		53		Estimate	
_UnitCost@21	float		53		Estimate	
_UnitCost@22	float		53		Estimate	
_UnitCost@23	float		53		Estimate	
_UnitCost@24	float		53		Estimate	
_UnitCost@25	float		53		Estimate	
_UnitCost@26	float		53		Estimate	
_UnitCost@27	float		53		Estimate	
_UnitCost@28	float		53		Estimate	
_UnitCost@29	float		53		Estimate	
_UnitCost@30	float		53		Estimate	
_UnitCost@31	float		53		Estimate	
_UnitCost@32	float		53		Estimate	
_UnitCost@33	float		53		Estimate	
_UnitCost@34	float		53		Estimate	
_UnitCost@35	float		53		Estimate	
_UnitCost@36	float		53		Estimate	
_UnitCost@37	float		53		Estimate	



_UnitCost@38	float		53		Estimate	
_UnitCost@39	float		53		Estimate	
_UnitCost@40	float		53		Estimate	
_UnitCost@41	float		53		Estimate	
_UnitCost@42	float		53		Estimate	
_UnitCost@43	float		53		Estimate	
_UnitCost@44	float		53		Estimate	
_UnitCost@45	float		53		Estimate	
_UnitCost@46	float		53		Estimate	
_UnitCost@47	float		53		Estimate	
_UnitCost@48	float		53		Estimate	
_UnitCost@49	float		53		Estimate	
_UnitCost@50	float		53		Estimate	
_UnitCost@51	float		53		Estimate	
_UnitCost@52	float		53		Estimate	
_UnitCost@53	float		53		Estimate	
_UnitCost@54	float		53		Estimate	
_UnitCost@55	float		53		Estimate	
_UnitCost@56	float		53		Estimate	
_UnitCost@57	float		53		Estimate	
_UnitCost@58	float		53		Estimate	
_UnitCost@59	float		53		Estimate	
_UnitCost@60	float		53		Estimate	
_UnitCost@61	float		53		Estimate	
_UnitCost@62	float		53		Estimate	
_UnitCost@63	float		53		Estimate	
_UnitCost@64	float		53		Estimate	
_UnitCost@65	float		53		Estimate	
_UnitCost@66	float		53		Estimate	
_UnitCost@67	float		53		Estimate	
_UnitCost@68	float		53		Estimate	
_UnitCost@69	float		53		Estimate	
_UnitCost@70	float		53		Estimate	
_UnitCost@71	float		53		Estimate	
_UnitCost@72	float		53		Estimate	
_UnitCost@73	float		53		Estimate	
_UnitCost@74	float		53		Estimate	
_UnitCost@75	float		53		Estimate	
_UnitCost@76	float		53		Estimate	
_UnitCost@77	float		53		Estimate	
_UnitCost@78	float		53		Estimate	
_UnitCost@79	float		53		Estimate	
_UnitCost@80	float		53		Estimate	
_UnitCost@81	float		53		Estimate	

_UnitCost@82	float		53		Estimate	
_UnitCost@83	float		53		Estimate	
_UnitCost@84	float		53		Estimate	
_UnitCost@85	float		53		Estimate	
_UnitCost@86	float		53		Estimate	
_UnitCost@87	float		53		Estimate	
_UnitCost@88	float		53		Estimate	
_UnitCost@89	float		53		Estimate	
_UnitCost@90	float		53		Estimate	
_UnitCost@91	float		53		Estimate	
_UnitCost@92	float		53		Estimate	
_UnitCost@93	float		53		Estimate	
_UnitCost@94	float		53		Estimate	
_UnitCost@95	float		53		Estimate	
_UnitCost@96	float		53		Estimate	
_UnitCost@97	float		53		Estimate	
_UnitCost@98	float		53		Estimate	
_UnitCost@99	float		53		Estimate	
_UnitCost@100	float		53		Estimate	
_UnitCost@101	float		53		Estimate	
_UnitCost@102	float		53		Estimate	
DateBegin	datetime			3	Estimate	
DateEnd	datetime			3	Estimate	
Flags	int		10		Estimate	
EstimateResourceUID	uniqueidentifier				Estimate	
SaveID	int		10		Estimate	
WageScale	int		10		Estimate	
BidMasterJobUID	uniqueidentifier				Estimate	
LastUpdateID	int		10		Estimate	
IsActive	bit				Estimate	
CreatedByld	bigint		19		Estimate	
CreatedDate	datetimeoffset			7	Estimate	
ModifiedByld	bigint		19		Estimate	
ModifiedDate	datetimeoffset			7	Estimate	

Field Descriptions

Name	Description	Example
EstimateResourceCostId	Unique identifier assigned to each record in the table	2386947
EstimateResourceCostUF	System generated field, for internal use only	56655473-6b80-09ea-0aaa-0a9d018b9e11



EstimateResourceCostUID	Unique identifier for the Resource Cost record. Not visible in the Interface	88a623f4-cfd9-4fd1-afcd-d71df17c9ba2
_UnitCost@0	Total	30.62
_UnitCost@1	Labor	30.62
_UnitCost@2	Gross Wages	23.40
_UnitCost@3	Labor Burden	7.22
_UnitCost@4	Labor Fringes	2.11
_UnitCost@5	Travel	0.0
_UnitCost@6	Premium	0.0
_UnitCost@7	Holiday	0.23
_UnitCost@8	Savings	0.0
_UnitCost@9	Pension	0.70
_UnitCost@10	Vacation	0.47
_UnitCost@11	Subsistence	0.0
_UnitCost@12	Health & Welfare	0.70
_UnitCost@13	Apprenticeship	0.0
_UnitCost@14	Undefined Fringe 1	0.0
_UnitCost@15	Undefined Fringe 2	0.0
_UnitCost@16	Undefined Labor Fringes	0.0
_UnitCost@17	Labor Insurance	2.11
_UnitCost@18	Bodily Injury & Property Damage	0.94
_UnitCost@19	Workers Compensation	1.17
_UnitCost@20	Undefined Insurance 1	0.0
_UnitCost@21	Undefined Insurance 2	0.0
_UnitCost@22	Undefined Labor Insurance	0.0
_UnitCost@23	Labor Taxes	3.01
_UnitCost@24	FICA	1.84
_UnitCost@25	FUTA	0.47
_UnitCost@26	SUTA	0.70
_UnitCost@27	Undefined Tax 1	0.0
_UnitCost@28	Undefined Labor Taxes	0.0
_UnitCost@29	Undefined Labor Burden	0.0
_UnitCost@30	Undefined Labor	0.0
_UnitCost@31	Owned Equipment	0.0
_UnitCost@32	OE Ownership	0.0
_UnitCost@33	OE Depreciation	0.0
_UnitCost@34	OE Overhead	0.0
_UnitCost@35	OE Cost of Facilities Capital (Cfc)	0.0
_UnitCost@36	OE Insurance	0.0
_UnitCost@37	OE License	0.0
_UnitCost@38	OE Taxes	0.0
_UnitCost@39	OE Overhaul Parts	0.0

_UnitCost@40	OE Overhaul Labor	0.0
_UnitCost@41	OE Undefined Ownership 1	0.0
_UnitCost@42	Undefined OE Ownership	0.0
_UnitCost@43	OE Operation	0.0
_UnitCost@44	OE Repair Parts	0.0
_UnitCost@45	OE Repair Labor	0.0
_UnitCost@46	OE Fuel	0.0
_UnitCost@47	OE Lube	0.0
_UnitCost@48	OE Tires & Tracks	0.0
_UnitCost@49	OE Ground Engaging Components	0.0
_UnitCost@50	OE Undefined Operation 1	0.0
_UnitCost@51	Undefined OE Operation	0.0
_UnitCost@52	Undefined Owned Equipment	0.0
_UnitCost@53	Rented Equipment	0.0
_UnitCost@54	RE Rental	0.0
_UnitCost@55	RE Rent Expense	0.0
_UnitCost@56	RE Overhead	0.0
_UnitCost@57	RE Finance Expense	0.0
_UnitCost@58	RE Insurance	0.0
_UnitCost@59	RE License	0.0
_UnitCost@60	RE Rental Taxes	0.0
_UnitCost@61	RE Overhaul Parts	0.0
_UnitCost@62	RE Overhaul Labor	0.0
_UnitCost@63	RE Undefined Rent 1	0.0
_UnitCost@64	Undefined RE Rental	0.0
_UnitCost@65	RE Operation	0.0
_UnitCost@66	RE Repair Parts	0.0
_UnitCost@67	RE Repair Labor	0.0
_UnitCost@68	RE Fuel	0.0
_UnitCost@69	RE Lube	0.0
_UnitCost@70	RE Tires & Tracks	0.0
_UnitCost@71	RE Ground Engaging Components	0.0
_UnitCost@72	RE Undefined Operation 1	0.0
_UnitCost@73	Undefined RE Operation	0.0
_UnitCost@74	Undefined Rented Equipment	0.0
_UnitCost@75	Supplies	0.0
_UnitCost@76	Undefined Supplies	0.0
_UnitCost@77	Materials	0.0
_UnitCost@78	Installed Equipment	0.0
_UnitCost@79	Installed Materials	0.0
_UnitCost@80	Construction Supplies	0.0
_UnitCost@81	Undefined Materials	0.0



_UnitCost@82	Subcontract	0.0
_UnitCost@83	Subcontract Price	0.0
_UnitCost@84	Subcontract Conditions	0.0
_UnitCost@85	Subcontract Taxes	0.0
_UnitCost@86	Subcontract Bond	0.0
_UnitCost@87	Undefined Subcontract	0.0
_UnitCost@88	Fees	0.0
_UnitCost@89	Job Bond	0.0
_UnitCost@90	Job Insurance	0.0
_UnitCost@91	Finance Expense	0.0
_UnitCost@92	Business Taxes	0.0
_UnitCost@93	Sales Taxes	0.0
_UnitCost@94	Fees Undefined 1	0.0
_UnitCost@95	Undefined Fees	0.0
_UnitCost@96	Allowance	0.0
_UnitCost@97	Risk Allowance	0.0
_UnitCost@98	Contingency Allowance	0.0
_UnitCost@99	Adjustment Allowance	0.0
_UnitCost@100	Undefined Allowance	0.0
_UnitCost@101	Custom Category 1	0.0
_UnitCost@102	Undefined	0.0
DateBegin	Field for internal use only	2003-06-10T16:09:28.767Z
DateEnd	Field for internal use only	2003-06-10T16:09:28.767Z
Flags	Field for internal use only	0
EstimateResourceUID	Identifier of the Resource record from the Resource Rate Register. Not visible in the interface	2e314a8b-e2ed-49de-af9e-f8e9085e4162
SaveID	Field for internal use only	168
WageScale	For Duration based Resources, indicates which Scale Rate the record refers to. This value is 1 for non-duration based Resources.	1
BidMasterJobUID	Identifier of the Job record from the Jobs table in the BidMaster database. This field is not unique in this table but is unique to an instance of a Job. Not visible in the interface.	dec37787-a459-463b-a567-dd80f0f705b3
LastUpdateID	Field for internal use only	628
IsActive	Indicates if record is active. Please note: records will become inactive if a user un-syncs a job from Estimate application	true
CreatedByld	System generated Id, will always represent the system, not actual	1

	users. This field is for internal use only	
CreatedDate	Date/timestamp record is entered	2023-05-08T21:57:38.547135Z
ModifiedById	System generated Id, will always represent the system, not actual users. This field is for internal use only	1
ModifiedDate	Date/timestamp record is modified	2023-05-08T21:57:38.547135Z

Sample

```
{
  "ResourceCostsId": 2386947,
  "ResourceCostsUF": "56655473-6b80-09ea-0aaa-0a9d018b9e11",
  "EstimateResourceCostsUID": "88a623f4-cfd9-4fd1-afcd-d71df17c9ba2",
  "C_UnitCost_0": 30.618900000000004,
  "C_UnitCost_1": 30.618900000000004,
  "C_UnitCost_2": 23.4,
  "C_UnitCost_3": 7.2189,
  "C_UnitCost_4": 2.106,
  "C_UnitCost_5": 0.0,
  "C_UnitCost_6": 0.0,
  "C_UnitCost_7": 0.234,
  "C_UnitCost_8": 0.0,
  "C_UnitCost_9": 0.702,
  "C_UnitCost_10": 0.468,
  "C_UnitCost_11": 0.0,
  "C_UnitCost_12": 0.702,
  "C_UnitCost_13": 0.0,
  "C_UnitCost_14": 0.0,
  "C_UnitCost_15": 0.0,
  "C_UnitCost_16": 0.0,
  "C_UnitCost_17": 2.106,
  "C_UnitCost_18": 0.936,
  "C_UnitCost_19": 1.17,
  "C_UnitCost_20": 0.0,
  "C_UnitCost_21": 0.0,
  "C_UnitCost_22": 0.0,
  "C_UnitCost_23": 3.0069,
  "C_UnitCost_24": 1.8369,
  "C_UnitCost_25": 0.468,
  "C_UnitCost_26": 0.702,
  "C_UnitCost_27": 0.0,
  "C_UnitCost_28": 0.0,
  "C_UnitCost_29": 0.0,
  "C_UnitCost_30": 0.0,
  "C_UnitCost_31": 0.0,
  "C_UnitCost_32": 0.0,
  "C_UnitCost_33": 0.0,
}
```



"C_UnitCost_34": 0.0,
"C_UnitCost_35": 0.0,
"C_UnitCost_36": 0.0,
"C_UnitCost_37": 0.0,
"C_UnitCost_38": 0.0,
"C_UnitCost_39": 0.0,
"C_UnitCost_40": 0.0,
"C_UnitCost_41": 0.0,
"C_UnitCost_42": 0.0,
"C_UnitCost_43": 0.0,
"C_UnitCost_44": 0.0,
"C_UnitCost_45": 0.0,
"C_UnitCost_46": 0.0,
"C_UnitCost_47": 0.0,
"C_UnitCost_48": 0.0,
"C_UnitCost_49": 0.0,
"C_UnitCost_50": 0.0,
"C_UnitCost_51": 0.0,
"C_UnitCost_52": 0.0,
"C_UnitCost_53": 0.0,
"C_UnitCost_54": 0.0,
"C_UnitCost_55": 0.0,
"C_UnitCost_56": 0.0,
"C_UnitCost_57": 0.0,
"C_UnitCost_58": 0.0,
"C_UnitCost_59": 0.0,
"C_UnitCost_60": 0.0,
"C_UnitCost_61": 0.0,
"C_UnitCost_62": 0.0,
"C_UnitCost_63": 0.0,
"C_UnitCost_64": 0.0,
"C_UnitCost_65": 0.0,
"C_UnitCost_66": 0.0,
"C_UnitCost_67": 0.0,
"C_UnitCost_68": 0.0,
"C_UnitCost_69": 0.0,
"C_UnitCost_70": 0.0,
"C_UnitCost_71": 0.0,
"C_UnitCost_72": 0.0,
"C_UnitCost_73": 0.0,
"C_UnitCost_74": 0.0,
"C_UnitCost_75": 0.0,
"C_UnitCost_76": 0.0,
"C_UnitCost_77": 0.0,
"C_UnitCost_78": 0.0,
"C_UnitCost_79": 0.0,
"C_UnitCost_80": 0.0,
"C_UnitCost_81": 0.0,
"C_UnitCost_82": 0.0,
"C_UnitCost_83": 0.0,
"C_UnitCost_84": 0.0,

```

"C_UnitCost_85": 0.0,
"C_UnitCost_86": 0.0,
"C_UnitCost_87": 0.0,
"C_UnitCost_88": 0.0,
"C_UnitCost_89": 0.0,
"C_UnitCost_90": 0.0,
"C_UnitCost_91": 0.0,
"C_UnitCost_92": 0.0,
"C_UnitCost_93": 0.0,
"C_UnitCost_94": 0.0,
"C_UnitCost_95": 0.0,
"C_UnitCost_96": 0.0,
"C_UnitCost_97": 0.0,
"C_UnitCost_98": 0.0,
"C_UnitCost_99": 0.0,
"C_UnitCost_100": 0.0,
"C_UnitCost_101": 0.0,
"C_UnitCost_102": 0.0,
"DateBegin": "2003-06-10T16:09:28.767Z",
"DateEnd": "2003-06-10T16:09:28.767Z",
"Flags": 0,
"ResourceUID": "2e314a8b-e2ed-49de-af9e-f8e9085e4162",
"SaveID": 168,
"WageScale": 1,
"BidMasterJobUID": "dec37787-a459-463b-a567-dd80f0f705b3",
>LastUpdateID": 628,
"IsActive": true,
"CreatedById": 1,
"CreatedDate": "2023-05-08T21:57:38.547135Z",
"ModifiedById": 1,
"ModifiedDate": "2023-05-08T21:57:38.547135Z"
}

```

Data Validation

This data can be validated by navigating to a Resource Rate record and expanding the Cost Category Breakdown tree in the Charge Rate tab for the Wage Scale corresponding to the record being queried.

Figure 1: Cost Categories on the Charge Rate tab of a Resource Rate Record



Training Job - Reporting - Estimate
File Setup Estimate Quote Price System Integrations

Job Properties
Foundation Setup Data
Pay Item & Proposal
Bid Wizard
Resources
Equipment
Materials
Resource Assemblies
Cost Item Assemblies
Standard Tables
Reports

Initialize
Resources
Assemblies
Reports

Resource Rate Register
Labor Rate Record

Code: * LT1
Description: Teamster

Setup
Charge Rate
Billing Rate

Scale 1
Scale 2
Scale 3
All Scales

Cost Category Breakdown	Amount	Percent	Is Taxed	Is Insured
Total	\$30.62			
Labor	\$30.62			
Labor Base	\$23.40			
Labor Burden	\$7.22			
Labor Fringes	\$2.11			
Travel	\$0.00	0.00	<input type="checkbox"/>	<input type="checkbox"/>
Premium	\$0.00	0.00	<input type="checkbox"/>	<input type="checkbox"/>
Holiday	\$0.23	1.00	<input type="checkbox"/>	<input type="checkbox"/>
Savings	\$0.00	0.00	<input type="checkbox"/>	<input type="checkbox"/>
Pension	\$0.70	3.00	<input type="checkbox"/>	<input type="checkbox"/>
Vacation	\$0.47	2.00	<input type="checkbox"/>	<input type="checkbox"/>
Subsistence	\$0.00	0.00	<input type="checkbox"/>	<input type="checkbox"/>
Health & Welfare	\$0.70	3.00	<input type="checkbox"/>	<input type="checkbox"/>
Apprenticeship	\$0.00	0.00	<input type="checkbox"/>	<input type="checkbox"/>
Undefined Fring...	\$0.00	0.00	<input type="checkbox"/>	<input type="checkbox"/>
Undefined Fring...	\$0.00	0.00	<input type="checkbox"/>	<input type="checkbox"/>
Undefined Labo...	\$0.00	0.00	<input type="checkbox"/>	<input type="checkbox"/>
> Labor Insurance	\$2.11			
> Labor Taxes	\$3.01			
Undefined Labor Bu...	\$0.00	0.00		
Undefined Labor	\$0.00	0.00		
> Materials	\$0.00			
Undefined	\$0.00			

Special Instructions

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

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

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

Base Wage Factors for Overtime

Use Base Wage Factors for Scales 2 and 3

Scale 2 Factor: x Base Wage

Scale 3 Factor: x Base Wage

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

OK
Cancel
New...
< Prev
Next >

As-Entered Currency
As-Entered Units
InEightSuite T01-QA 23.4
Training Job - Reporting