

# ENGINEUNITY TUTORIAL



## Job Costs



# Job Costs

Job 205 (Completed on time) Navigate to "Main menu/Measuring performance/Assessing performance/Job performance/Job details"

Management consultants report Risk analysis

## JOB SUMMARY

## JOB PROGRESS

Job progression											Profit analysis			
Planned schedule			Actual progress								By period		Cumulative	
Job period	Planned labour	Cumul % complete	Period	Status	Actual labour	Ineffect due to delays	Ineffect due to overman	Effective labour	Actual % complete	Completion status	Profit	Profit % of cost	Cumul profit	Cumul profit % of cost
1	20	40 %	10	Past	25	0.0	0.0	25.0	51.56 %	Ahead of schedule	131,925	8.1 %	131,925	8.1 %
2	29	100 %	11	Past	25	0.6	0.0	24.4	100 %	Completed on time	86,529	5.5 %	218,454	6.8 %

Total planned labour needed to complete the job is 49.

### PERIOD 11

CLICK ON A LINE IN THE THE SUMMARY ABOVE TO SHOW THE DETAILS FOR EACH PERIOD THE JOB HAS BEEN PROGRESSED

LABOUR ANALYSIS	COST ANALYSIS	VALUE AND PROFIT ANALYSIS
<b>PLANNED SCHEDULE</b>	<b>BUILD RELATED</b>	Measured value: 1,651,916 ?
Required labour: 29	Design cost: 118,925 ?	Early completion bonus: 0
Overmanning of: 25 % permitted	Build cost: 1,167,085 ?	Total value: 1,651,916
Effective labour limit (ELL): 36.3	Site cost: 1,725 ?	Total cost: 1,565,387
<b>LABOUR ALLOCATED</b>	Risk cost: 6,201 ?	Total profit: 86,529 (5.5 % of costs)
Own: 25	Late completion penalty: 0	
Sub: 0	<b>ADDITIONAL LABOUR COSTS</b>	<b>PROGRESS TO DATE</b>
Total labour allocated: 25	Ineffective labour due to overmanning: 0	Amount of the job completed: 100 %
(less) labour lost by delays: 0.6 (ineffective)	Ineffective labour due to completing the job: 6,451 ?	Progress comment: (On schedule)
Effective level after delays: 24.4	Training new recruits: 0	Cumulative profit: 218,454 (6.8 % of costs)
(less) overmanning above the ELL: 0 (ineffective)	Labour pay: 0	Completion ratio: 0.953
Effective labour on site: 24.4	Subcontractor: 0	
	<b>PROJECT COSTS</b>	
	Miles Martin: ?	
	very good: ?	
	12,500	
	500 (4 %)	
	0	
	0	
	0	

## DESIGN COST

Applicable to design & build jobs only, the design consultant charges a fee paid in relation to the amount of the job progressed in the period.



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LABOUR ANALYSIS	COST ANALYSIS	VALUE AND PROFIT ANALYSIS
<b>PLANNED SCHEDULE</b> Required labour: 29 Overmanning of: 25 % permitted Effective labour limit (ELL): 36.3  <b>LABOUR ALLOCATED</b> Own: 25 Sub: 0 Total labour allocated: 25 <input type="checkbox"/> (less) labour lost by delays: 0.6 (ineffective) Effective level after delays: 24.4 (less) overmanning above the ELL: 0 (ineffective) Effective labour on site: 24.4	<b>BUILD RELATED</b> Design cost: 118,925 ? Build cost: 1,160,085 ? Site cost: 250,25 ? Risk cost: 1,111 ? Late completion penalty:  <b>ADDITIONAL LABOUR COSTS</b> Ineffective labour due to overmanning: Ineffective labour due to completing the job: Training new recruits (Own): Labour payoffs (Own): Subcontractor cost:  <b>PROJECT MANAGER</b> Allocator: Overall performance: Salary: Bonuses: Recruitment: Relocation: Previous:	Measured value: 1,651,916 ? Early completion bonus: 0 Total value: 1,651,916 Total cost: 1,565,387 Total profit: 86,529 (5.5 % of costs)  <b>PROGRESS TO DATE</b> Amount of the job completed: 100 % Progress comment: (On schedule) Cumulative profit: 218,454 (6.8 % of costs) Completion ratio: 0.953

## BUILD COST

Build costs cover all the **direct costs** (labour, plant, material etc) needed to complete a job.

The build costs incurred each period depend upon the **effective level of labour** allocated to the site.



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<b>LABOUR ALLOCATED</b>	Risk cost: 10,001 ?	Total profit: 86,529 (5.5 % of costs)
Own: 25	Late completion penalty: 0	
Sub: 0	<b>ADDITIONAL LABOUR COSTS</b>	<b>PROGRESS TO DATE</b>
Total labour allocated: 25	Ineffective labour due to overmanning: 0	Amount of the job completed: 100 %
(less) labour lost by delays: 0.6 (ineffective)	Ineffective labour due to completing the job: 0	Progress comment: (On schedule)
Effective level after delays: 24.4	Training new recruits (Own): 0	Cumulative profit: 218,454 (6.8 % of costs)
(less) overmanning above the ELL: 0 (ineffective)	Labour payoffs (Own): 0	Completion ratio: 0.953
Effective labour on site: 24.4	Subcontractor cost: 0	
	<b>PROJECT MANAGER</b>	
	Allocated: Mile	
	Overall performance: ver	
	Salary: 0	
	Bonus: 0	
	Recruitment cost: 0	
	Relocation fee: 0	
	Previous payoff: 0	

## SITE COST

Site costs pay for the **support staff and services** required to administer a site whilst the build is taking place.

The level of site cost paid each period is based upon the total labour (own and subcontract) allocated to the site.



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<b>LABOUR ALLOCATED</b>	Risk cost: 16,201 ?	Total profit: 86,529 (5.5 % of costs)
Own: 25	Late completion penalty: 0	
Sub: 0	<b>ADDITIONAL LABOUR COSTS</b>	<b>PROGRESS TO DATE</b>
Total labour allocated: 25	Ineffective labour due to overmanning:	Amount of the job completed: 100 %
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Effective labour on site: 24.4	Subcontractor cost:	
	<b>PROJECT MANAGER</b>	
	Allocated: Mil	
	Overall performance: ve	
	Salary:	
	Bonus:	
	Recruitment cost:	
	Relocation fee:	
	Previous payoff:	

## RISK COST

The costs of any risk incurred after mitigating actions have been taken, such as the use of a BIM model and targeted investments into risk consultants.



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Total labour allocated: 25	Ineffective labour due to overmanning: 0	Amount of the job completed: 100 %
(less) labour lost by delays: 0.6 (ineffective)	Ineffective labour due to completing the job: 6.45	Progress comment: (On schedule)
Effective level after delays: 24.4	Training new recruits (Own): 0	Cumulative profit: 218,454 (6.8 % of costs)
(less) overmanning above the ELL: 0 (ineffective)	Labour payoffs (Own): 0	Completion ratio: 0.953
Effective labour on site: 24.4	Subcontractor cost: 0	
	<b>PROJECT MANAGER</b>	
	Allocated: Miles Martin	
	Overall performance: very good	
	Salary: 12,500	
	Bonus: 500	
	Recruitment cost: 0	
	Relocation fee: 0	
	Previous payoff: 0	

## LATE COMPLETION PENALTY

If the duration of a job exceeds its planned duration, the company is **charged a penalty** for each late period.

The penalty is a percentage of the tender value (bid entered) for the job; details are given in the **Industry parameters**, and vary by client.



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	Allocated: Miles M ?	
	Overall performance: very g	
	Salary: 1	
	Bonus:	
	Recruitment cost:	
	Relocation fee:	
	Previous payof	

## ADDITIONAL LABOUR COSTS

The bulk of the labour costs are built into the build costs, but there are additional labour costs, such as the cost of taking on and laying off of both own and subcontract labour.



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## PROJECT MANAGER COSTS

Various costs covering the project manager allocated to the site.