

# ENGINEUITY 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>			
Required labour:	29	Design cost:	118,925	Measured value:	1,651,916
Overmanning of:	25 % permitted	Build cost:	1,167,085	Early completion bonus:	0
Effective labour limit (ELL):	36.3	Site cost:	1,725	Total value:	1,651,916
		Risk cost:	6,201	Total cost:	1,565,387
		Late completion penalty:	0	Total profit:	86,529 (5.5 % of costs)
<b>LABOUR ALLOCATED</b>		<b>ADDITIONAL LABOUR COSTS</b>		<b>PROGRESS TO DATE</b>	
Own:	25	Ineffective labour due to overmanning:	0	Amount of the job completed:	100 %
Sub:	0	Ineffective labour due to completing the job:	6,451	Progress comment:	(On schedule)
Total labour allocated:	25	Training new recruits:	0	Cumulative profit:	218,454 (6.8 % of costs)
(less) labour lost by delays:	0.6 (ineffective)	Labour pay:	0	Completion ratio:	0.953
Effective level after delays:	24.4	Subcontract:	0		
(less) overmanning above the ELL:	0 (ineffective)				
Effective labour on site:	24.4				
		<b>PROJECT</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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Overmanning of:	25 % permitted	Build cost:	1,160,085 ?	Total value:	1,651,916
Effective labour limit (ELL):	36.3	Site cost:	250 25 ?	Total cost:	1,565,387
		Risk cost:	10 1 ?	Total profit:	86,529 (5.5 % of costs)
		Late completion penalty:			
<b>LABOUR ALLOCATED</b>		<b>ADDITIONAL LABOUR COSTS</b>		<b>PROGRESS TO DATE</b>	
Own:	25	Ineffective labour due to overmanning:		Amount of the job completed:	100 %
Sub:	0	Ineffective labour due to completing the job:		Progress comment:	(On schedule)
Total labour allocated:	25 ?	Training new recruits (Own):		Cumulative profit:	218,454 (6.8 % of costs)
(less) labour lost by delays:	0.6 (ineffective)	Labour payoffs (Own):		Completion ratio:	0.953
Effective level after delays:	24.4	Subcontractor cost:			
(less) overmanning above the ELL:	0 (ineffective)				
Effective labour on site:	24.4				
		<b>PROJECT MANAGER</b>			
		Allocator:			
		Overall performance:			
		Sal:			
		Br:			
		Recruitment:			
		Relocati:			
		Previous:			

## 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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Total labour allocated:	25 ?	Training new recruits (Own):		Cumulative profit:	218,454 (6.8 % of costs)
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Effective level after delays:	24.4	Subcontractor cost:			
(less) overmanning above the ELL:	0 (ineffective)				
Effective labour on site:	24.4				
		<b>PROJECT MANAGER</b>			
		Allocated:	Mile		
		Overall performance:	ver		
		Salary:			
		Bonus:			
		Recruitment cost:			
		Relocation fee:			
		Previous payoff:			

## 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	<b>PROGRESS TO DATE</b>	
Sub:	0	<b>ADDITIONAL LABOUR COSTS</b>		Amount of the job completed:	100 %
Total labour allocated:	25 ?	Ineffective labour due to overmanning:		Progress comment:	(On schedule)
(less) labour lost by delays:	0.6 (ineffective)	Ineffective labour due to completing the job:		Cumulative profit:	218,454 (6.8 % of costs)
Effective level after delays:	24.4	Training new recruits (Own):		Completion ratio:	0.953
(less) overmanning above the ELL:	0 (ineffective)	Labour payoffs (Own):		<b>PROJECT MANAGER</b>	
Effective labour on site:	24.4	Subcontractor cost:		Allocated:	Mil
				Overall performance:	vr
				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	Progress comment:	(On schedule)
(less) labour lost by delays:	0.6 (ineffective)	Ineffective labour due to completing the job:	6,45	Cumulative profit:	218,454 (6.8 % of costs)
Effective level after delays:	24.4	Training new recruits (Own):		Completion ratio:	0.953
(less) overmanning above the ELL:	0 (ineffective)	Labour payoffs (Own):		<b>PROJECT MANAGER</b>	
Effective labour on site:	24.4	Subcontractor cost:		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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Effective level after delays:	24.4	Subcontractor cost:	0		
(less) overmanning above the ELL:	0 (ineffective)				
Effective labour on site:	24.4				
		<b>PROJECT MANAGER</b>			
		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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		<b>PROJECT MANAGER</b>			
		Allocated:	Miles Martin ?		
		Overall performance:	very good		
		Salary:	12,500		
		Bonus:	500 (4 %)		
		Recruitment cost:	0		
		Relocation fee:	0		
		Previous payoff:	0		

## PROJECT MANAGER COSTS

Various costs covering the project manager allocated to the site.