

# ENGINEUNITY TUTORIAL



**Early Completion Bonus**



## Early Completion Bonus

The client pays a **bonus for early completion** of a job.

Early completion of a job means completing **at least one period** before the end of the planned duration e.g., if the planned duration is 4 periods, it must be completed in 3 periods or less to obtain the client bonus.





# Early Completion Bonus

Job performance

Navigate to "Main menu/Measuring performance/Assessing performance/Job performance"

Management consultant report Graphical analysis

ALL JOBS IDENTIFIED

JOBS WON

Summary

Risk analysis (Cost)  
Risk analysis (Delays)  
Retention analysis

### TERMINOLOGY

[Completion Ratio] Measure of how efficiently a job is completed in its final period based upon the labour allocated (0=worse possible; 1 is perfect)

Job	In	Type	Size	Sector	Client	Status	Completion details			Progress details			
							In period	Schedule	Ratio	Periods Run	Cost incurred	Profit made	Profit % of cost
4	UK	DB	Medium	Building & Commercial	Madison Bank	Completed early	4	Early	0.97	2	9,185,998	686,861	7.5 %
5	UK	BO	Small	Transport	East Midlands County Council	Completed on time	4	On Time	0.96	2	2,099,767	67,147	3.2 %
29	UK	BO	Small	Transport	HS Rail Connection Group	Completed late	6	Late	0.37	3	1,332,505	-27,741	-2.1 %
32	US	BO	Small	Building & Commercial	FIFA North America 2026	Completed on time	5	On Time	0.96	2	5,768,797	36,079	0.6 %
34	UK	BO	Small	Energy	Breeze Energy	Completed on time	6	On Time	0.94	3	5,240,331	210,539	4.0 %
49	UK	BO	Small	Water & Sewage	English Waterways	Completed on time	6	On Time	0.98	2	1,624,010	72,299	4.5 %
52	UK	BO	Medium	Transport	HS Rail Connection Group	Completed on time	7	On Time	0.93	3	7,310,838	422,006	5.8 %
67	SYR	BO	Small	Energy	Syrian Pipelines	Completed on time	7	On Time	0.81	3	2,592,765	98,570	3.8 %
75	UK	BO	Small	Water & Sewage	Fenlands County Council	Completed late	8	Late	0.37	3	4,979,173	40,220	0.8 %
82	IRQ	DB	Medium	Building & Commercial	Iraq TranGen 2009	Completed on time	8	On Time	0.92	3	9,520,311	458,609	4.8 %
110	UAE	BO	Medium	Energy	Emirates Energy	In progress				2	8,716,389	732,417	8.4 %
118	UK	BO	Medium	Building & Commercial	Master Brewers UK	In progress				2	4,244,370	282,480	6.7 %
128	UK	BO	Small	Water & Sewage	Dales Water Services	Completed on time	8	On Time	0.96	2	2,096,243	76,554	3.7 %
137	UK	BO	Medium	Water & Sewage	The Environment Department	In progress				1	3,104,954	-51,329	-1.7 %
167	US	BO	Medium	Energy	First Wind USA	In progress							
181	UK	BO	Small	Water & Sewage	London Water Services	In progress							

Display details for job 4

Consider the following example.

A number of jobs have completed :-

- The jobs that completed on time or late will NOT receive a bonus for early completion.
- The one job that completed early, at least one period before the planned duration, will receive a bonus. This was job 4.

We can use the **Display details for job 4** to take a closer look at the bonus that was paid.



# Early Completion Bonus

Job 4 (Completed early)

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	54	30 %	3	Past	73	0.0	0.1	72.9	41.47 %	Ahead of schedule	316,803	8.4 %	316,803	8.4 %
2	90	80 %	4	Past	107	0.0	0.0	107.0	100 %	Completed early	370,058	6.8 %	686,861	7.5 %
3	36	100 %												

Total planned labour needed to complete the job is 180.

### PERIOD 4

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: 5,749,664 ?
Required labour: 90	Design cost: 414,869 ?	Early completion bonus: 49,119
Overmanning of: 35 % permitted	Build cost: 4,060,472 ?	Total value: 5,798,783
Effective labour limit (ELL): 121.5	Site cost: 834,222 ?	Total cost: 5,472,568
<b>LABOUR ALLOCATED</b>	Risk cost: 0	Total profit: 326,215 (6.8 % of costs)
Own: 107	Late completion penalty: 0	
Sub: 0	<b>ADDITIONAL LABOUR COSTS</b>	<b>PROGRESS</b>
Total labour allocated: 107	Ineffective labour due to overmanning: 0	Amount of the job completed: 100 %
(less) labour lost by delays: 0 (ineffective)	Ineffective labour due to completing the job: 19,862 ?	Progress comment: Ahead of schedule
	Training new recruits (Own): 85,000	Cumulative profit: 326,215 (7.5 % of costs)
	Labour payoffs (Own): 0	Completion rate: 100 %
	Subcontractor cost: 0	
<b>BID SUBMITTED</b>	<b>PROJECT MANAGER</b>	
Estimated design cost: 10 % of build cost	Allocated: Gordon Simcoe ?	
Consultant used: <b>The PW Partnership</b> Details	Overall performance: excellent	
Estimated build cost: 7,091,780	Salary: 13,750	
Estimated site cost: 1,418,356	Bonus: 550 (4 %)	
On cost: 163,436	Recruitment cost: 0	
Mark-up: 4.7 %	Relocation fee: 0	
Bid: 9,823,740 ?	Previous payoff: 0	

The client for job 4 is Madison Bank, who pay a 0.5% bonus for early job completion.

The early completion bonus paid was 0.5% of the bid value of 9,823,740, or 49,119.