ENGINUITY TUTORIAL

% Of A Job Completed

% Of A Job Completed

The **% Of A Job Completed** on the Job Details does not always equate to the measured value recovered on a job in relation to the original bid value.

We will take a closer look at this anomaly.

% Of A Job Completed

Job 167 (In progress)

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

Management consultants report | Risk analysis

JOB SUMMARY

JOB PROGRESS

Period identified:	7
Country:	United States
Location:	New York City, New York
Type:	Build Only
BIM model used:	No
Size:	Medium
Approx value:	11,000,000
Duration:	3 periods
Description:	Replace onshore wind turbines
Sector:	Energy
Client:	First Wind USA [Details]

PROCUREMENT DETAILS

BID SUBMITTED

Estimated build cost:	8,929,002
Estimated site cost:	1,785,800
On cost:	134,946
Mark-up:	4.1 %
Bid:	11,294,590 [?]

BID RESULT

Job won

[Tender Report]

BIDDING INFORMATION

The client relationship when bid subm atisfactory

When progressing the job the expe value (turnover) for each man peri 73,341

ESTIMATED COSTS / PLANNED LABOUR SCHEDULE

Job period	Estimated build cost	Estimated site cost	Planned labour	Cumul % complete
1	2,678,701	535,740	46	30
2	4,464,501	892,900	77	80
3	1,785,800	357,160	31	100
	8,929,002	1,785,800	154	

RISK REGISTER

Risk description	Likelihood occurs	Impact cost	Reduction in cost if BIM used	Expected labour reduction
Incomplete survey	Low	55,000	No	2.4 %
Site access issues	Low	173,000	No	2.6 %
Leaks	Medium	49,000	No	2.1 %
Site cabins burn down	Low	71,000	No	6.9 %

A job was won with a bid of **11,294,590**

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Job 167 (In progress)

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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	46	30 %	9	Past	54	2.0	0.0	52.0	34.49 %	Ahead of schedule	-165,287	-4.1 %	-165,287	-4.1 %
2	77	80 %	10	Current						2 planned periods of the job left				
3	31	100 %												

Total planned labour needed to complete the job is 154.

For a Energy job, the effective labour on site (after delays) cannot be more than 18% above the planned labour level for the period.

PERIOD 9 CLICK ON A LINE IN THE THE SUMMARY ABOVE TO SHOW THE DETAILS FOR EACH PERIOD THE JOB HAS BEEN PROGRESSED

LABOUR ANALYSIS

PLANNED SCHEDULE

Required labour:	46	
Overmanning of:	18	% permitted
Effective labour limit (ELL):	54.3	

LABOUR ALLOCATED

Own:	54	
Sub:	0	
Total labour allocated:	54	
(less) labour lost by delays:	2	(ineffective)
Effective level after delays:	52.0	
(less) overmanning above the ELL:	0	(ineffective)
Effective labour on site:	52	

COST ANALYSIS

BUILD RELATED

Build cost:	3,066,267
Site cost:	633,135
Risk cost:	199,135
Late completion penalty:	0

ADDITIONAL LABOUR COSTS

Ineffective labour due to overmanning:	0
Ineffective labour due to completing the job:	0
Training new recruits (Own):	92,500
Labour payoffs (Own):	0
Subcontractor cost:	0

PROJECT MANAGER

Allocated:	Dwane Dupont
Overall performance:	excellent
Salary:	14,250
Bonus:	570 (4 %)

VALUE AND PROFIT ANALYSIS

Measured value:	3,843,990	
Early completion bonus:	0	
Total value:	3,843,990	
Total cost:	4,009,277	
Total profit:	-165,287	(-4.1 % of costs)

PROGRESS TO DATE

Amount of the job completed:	34.49 %	
Progress comment:	(Ahead of schedule)	
Cumulative profit:	-165,287	(-4.1 % of costs)

BID SUBMITTED

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Estimated site cost:	1,785,800	
On cost:	134,946	
Mark-up:	4.1	%
Bid:	11,294,590	

The job has just completed its1st period, and the **measured value** to date is 3,8843,990.

This equates to **34.03%** of the bid i.e., (3,843,990 / 11,294,590) * 100

However, the % complete shown is higher at **34.49%**, so why is there a difference ?

% Of A Job Completed