ENGINUITY TUTORIAL



Measured Value (Turnover)



Financial Performance

Navigate to "Main menu/Measuring performance/Assessing performance/Financial analysis"

Management consultants report Graphical analysis

OPERATIONAL

SHAREHOLDERS

INVESTMENTS

Summary Assets and liabilities

		Job performance				Company performance				Shareholders			Future outlook	
ıs Ye	ear/qtr	Total value	Total cost	Gross profit	GP % cost	Overhead costs	OVH % of cost	Net operating profit	NOP % cost				Forward workload	Forward margin
ry 20:	022 (Q1)	0	0	0		34,080		-31,580		0.87		4,843,420	0	0
ry 20:	022 (Q2)	0	0	0		68,000		-65,829		0.99		4,665,747	11,990,650	521,455
ry 20:	022 (Q3)	5,320,862	5,001,016	319,846	6.4 %	151,720	3.0 %	138,329	2.8 %	1.10	2.0 %	4,684,088	19,179,280	819,623
ry 20:	022 (Q4)	12,289,370	11,951,040	338,333	2.8 %	135,000	1.1 %	169,162	1.4 %	1.09	0.9 %	4,733,826	18,970,680	790,808
Years 203	023 (Q1)	9,844,018	9,518,447	325,571	3.4 %	172,690	1.8 %	127,580	1.3 %	1.14	1.1 %	4,732,459	24,031,360	1,023,725
Years 203	023 (Q2)	12,253,240	11,865,780	387,460	3.3 %	174,430	1.5 %	178,807	1.5 %	1.17	1.0 %	4,776,759	33,465,260	1,405,883
Years 203	023 (Q3)	16,212,540	15,455,030	757,510	4.9 %	207,380	1.3 %	446,623	2.9 %	1.33	0.8 %	5,085,848	28,047,780	1,184,132
Years 200	023 (Q4)	14,633,200	14,025,150	608,054	4.3 %	222,040	1.6 %	320,247	2.3 %	1.36	1.4 %	5,184,531	30,541,970	1,214,636
ry ry ry ry Y Y	21 21 21 21 ears 21 ears 21 ears 21	2022 (Q1) 2022 (Q2) 2022 (Q3) 2022 (Q4) 2022 (Q4) 2023 (Q1) 2023 (Q2) 2023 (Q2) 2023 (Q3)	2022 (Q1) 0 2022 (Q2) 0 2022 (Q3) 5,320,862 2022 (Q4) 12,289,370 (ears 2023 (Q1) 9,844,018 (ears 2023 (Q2) 12,253,240 (ears 2023 (Q3) 16,212,540	2022 (Q1) 0 0 2022 (Q2) 0 0 2022 (Q3) 5,320,862 5,001,016 2022 (Q4) 12,289,370 11,951,040 (ears 2023 (Q1) 9,844,018 9,518,447 (ears 2023 (Q2) 12,253,240 11,865,780 (ears 2023 (Q3) 16,212,540 15,455,030	Year/qtr Iotal value Iotal cost Profit	Year/qtr Total value Total cost profit cost	Year/qtr Total value Total cost profit cost costs 2022 (Q1) 0 0 0 34,080 2022 (Q2) 0 0 0 68,000 2022 (Q3) 5,320,862 5,001,016 319,846 6.4 % 151,720 2022 (Q4) 12,289,370 11,951,040 338,333 2.8 % 135,000 Years 2023 (Q1) 9,844,018 9,518,447 325,571 3.4 % 172,690 Years 2023 (Q2) 12,253,240 11,865,780 387,460 3.3 % 174,430 Years 2023 (Q3) 16,212,540 15,455,030 757,510 4.9 % 207,380	Year/qtr Total value Total cost profit cost cost cost	Year/qtr Total value Total cost profit cost costs cost operating profit 2022 (Q1) 0 0 0 34,080 -31,580 2022 (Q2) 0 0 68,000 -65,829 2022 (Q3) 5,320,862 5,001,016 319,846 6.4 % 151,720 3.0 % 138,329 2022 (Q4) 12,289,370 11,951,040 338,333 2.8 % 135,000 1.1 % 169,162 Years 2023 (Q1) 9,844,018 9,518,447 325,571 3.4 % 172,690 1.8 % 127,580 Years 2023 (Q2) 12,253,240 11,865,780 387,460 3.3 % 174,430 1.5 % 178,807 Years 2023 (Q3) 16,212,540 15,455,030 757,510 4.9 % 207,380 1.3 % 446,623	Year/qtr Total value Total cost profit cost cost cost operating profit 2022 (Q1) 0 0 0 34,080 -31,580 2022 (Q2) 0 0 68,000 -65,829 2022 (Q3) 5,320,862 5,001,016 319,846 6.4 % 151,720 3.0 % 138,329 2.8 % 2022 (Q4) 12,289,370 11,951,040 338,333 2.8 % 135,000 1.1 % 169,162 1.4 % Years 2023 (Q1) 9,844,018 9,518,447 325,571 3.4 % 172,690 1.8 % 127,580 1.3 % Years 2023 (Q2) 12,253,240 11,865,780 387,460 3.3 % 174,430 1.5 % 178,807 1.5 % Years 2023 (Q3) 16,212,540 15,455,030 757,510 4.9 % 207,380 1.3 % 446,623 2.9 %	Year/qtr Total value Total cost profit cost costs cost operating profit cost price 2022 (Q1) 0 0 0 34,080 -31,580 0.87 2022 (Q2) 0 0 0 68,000 -65,829 0.99 2022 (Q3) 5,320,862 5,001,016 319,846 6.4 % 151,720 3.0 % 138,329 2.8 % 1.10 2022 (Q4) 12,289,370 11,951,040 338,333 2.8 % 135,000 1.1 % 169,162 1.4 % 1.09 'ears 2023 (Q1) 9,844,018 9,518,447 325,571 3.4 % 172,690 1.8 % 127,580 1.3 % 1.14 'ears 2023 (Q2) 12,253,240 11,865,780 387,460 3.3 % 174,430 1.5 % 178,807 1.5 % 1.17 'ears 2023 (Q3) 16,212,540 15,455,030 757,510 4.9 % 207,380 1.3 % 446,623 2.9 % 1.33	Year/qtr Total value Total cost profit cost cost cost cost profit cost profit cost profit cost cost profit cost profit cost profit cost profit cost cost profit cost cos	Veary Vear Vear	Year/qtr Total value Total cost profit cost cost operating profit cost price % cost value workload 2022 (Q1) 0 0 0 34,080 -31,580 0.87 4,843,420 0 2022 (Q2) 0 0 0 68,000 -65,829 0.99 4,665,747 11,990,650 2022 (Q3) 5,320,862 5,001,016 319,846 6.4 % 151,720 3.0 % 138,329 2.8 % 1.10 2.0 % 4,684,088 19,179,280 2022 (Q4) 12,289,370 11,951,040 338,333 2.8 % 135,000 1.1 % 169,162 1.4 % 1.09 0.9 % 4,733,826 18,970,680 Years 2023 (Q1) 9,844,018 9,518,447 325,571 3.4 % 172,690 1.8 % 127,580 1.3 % 1.14 1.1 % 4,732,459 24,031,360 Years 2023 (Q2) 12,253,240 11,865,780 387,460 3.3 % 174,430 1.5 %

PERIOD 8

CLICK ON A LINE IN THE THE SUMMARY ABOVE TO SHOW THE PERIOD DETAILS

JOB PERFORMANCE

COMPANY PERFORMANCE

(less) Overheads: 222,040 ? (1.6 % of job costs)

Gross operating profit: 386,014

(less) Corporation tax: 62,668 ?

(plus) Credit interest: 0

(less) Overdraft interest: 3,099 ?

Net operating profit: 320,247 (2.3 % of job costs)

FUTURE OUTLOOK

Forward workload: 30,541,970 7 1,214,636

The **measured value**, **also referred to as turnover**, in the period is the amount of money the company receives from progressing all the jobs in progress, and is directly related to the amount of effective labour on each job.

The measured value can be thought of as a measure of the amount of work that the company is undertaking at any particular time.

We can use the ? drill down to see how the measured value is determined for the period.



Profit Analysis for all Jobs Progressed in Period 8										
		Period analysis								
Job	Desc	Sector	Size	Client	Measured Value	Early Completion Bonus	Job Cost	Job Profit		
75	Construct state of art composting unit	Water & Sewage	Small	Fenlands County Council	42,658	0	146,553	-103,895		
	New VIP lounge at Baghdad Airport	Building & Commercial	Medium	Iraq TranGen 2009	1,833,306	0	1,761,769	71,537		
110	Upgrade of power generation desalination plant	Energy	Medium	Emirates Energy	5,980,984	0	5,487,805	493,179		
118	N. distribution facility	Building & Commercial	Medium	Master Brewers UK	2,472,206	0	2,291,846	180,360		
128	Insta. of filtered pipeline	Water & Sewage	Small	Dales Water Services	1,288,346	0	1,232,218	56,128		
137	Major in to flood defences	Water & Sewage	Medium	The Environment Department	3,053,625	0	3,104,954	-51,329		
Disp	lay details fo				14,671,130	0	14,025,150			

In the example shown the measured value is made up from 6 jobs progressed in the period.

We can use the 'Display details' option see how the measured value is determined for each job.



Measured Value (Turnover) 👹 Job 110 (In progress) Management consultants report Risk analysis JOB PROGRESS JOB SUMMARY Profit analysis Job progression Planned schedule Actual progress By period Cumulative Planned Cumul % Period Status Ineffect Ineffect Cumul Actual Effective Actual % Profit % Cumul Job Completion status Profit due to due to profit % labour complete labour complete of cost period labour profit delays overman of cost 239,238 239,238 1 43 30 % Past 43 0.8 0.0 42.2 29.93 % Behind schedule 7.4 % 7.4% 2 72 80% 73 0.0 73.0 9.0% Past 0.0 81.56 % Ahead of schedule 493,179 732,417 8.4% 3 29 100 % Current FINAL planned period of the job Total planned labour needed to complete the job is 144. 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 8 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** PLANNED SCHEDULE BUILD RELATED Measured value: 5,980,984 2 Required labour: 72 Early completion bonus: 0 Overmanning of: 18 % permitted Build cost: 4,562,588 ? Total value: 5,980,91 Effective labour limit (ELL): 85.0 Site cost: 911,697 ? Total cost: 5,487 Risk cost: (9.0 % of costs) 0 Total profit: LABOUR ALLOCATED Late completion penalty: 0 Own: 73 0 ADDITIONAL LABOUR COSTS Sub: PROGR Total labour allocated: 73 (th Ineffective labour due to overmanning: Amount of the job comple .56 % (less) labour lost by delays: 0 (ineffective) Ineffective labour due to completing the job: 0 Progress cor of schedule) Effective level after delays: Training new recruits (Own): Cumula' 2,417 (8.4 % of costs). 0 (less) overmanning above the ELL: Labour payoffs (Own):

0 (ineffective) Effective labour on site: 73 0 Subcontractor cost:

PROJECT MANAGER

Previous payoff:

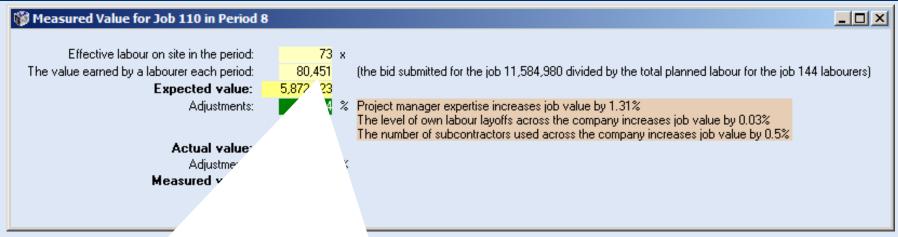
Allocated: Ron Garvey Overall performance: excellent Salary: 13,000 Bonus: 520 (4%) Recruitment cost: 0 0 Relocation fee:

We can use the ? drill down to see how the measured value is determined in period 8.

0

?



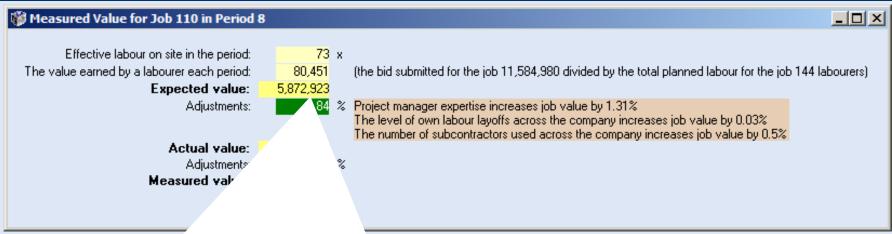


LABOUR PRODUCTIVITY

The amount of money generated by each effective labourer used on site in a period, a measure of labour productivity, is known as the **expected value per man period**, and is calculated as follows:-

Expected value per man period = Bid value / Total labour (man periods)



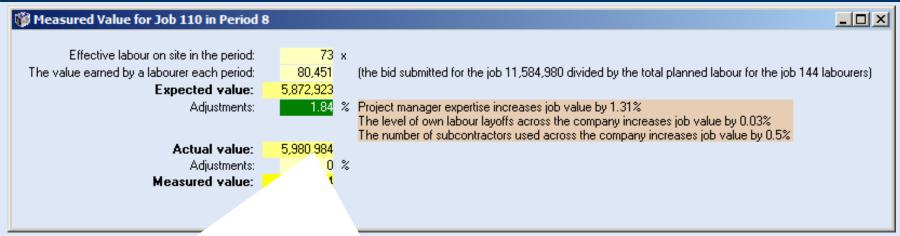


EXPECTED VALUE

The expected value is the amount of money that is expected to be earned from the client by progressing a job in the period, and is based upon the amount of effective labour on site.

Expected value = Effective labour on site x Expected value per man period



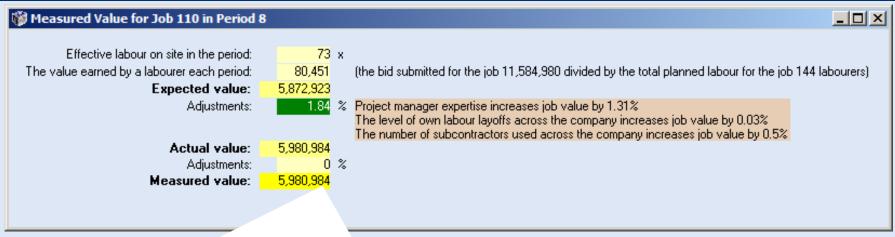


ACTUAL VALUE

The actual value is the expected value adjusted to take into account a number of factors that can increase/reduce the productivity of the labour used on the job :-

- The performance of the project manager allocated to the job
- The labour relations policy of the company





MEASURED VALUE

The measured value is the actual value adjusted by the measurement effort of the company for the period.

The measurement effort depends upon how well the company's measurement staff (quantity surveyors) are able to cope with the turnover in the period across all jobs. An understaffed measurement department will not be able to extract from the client all the value from the jobs progressed.

The last period of the history provides the benchmark for determining the appropriate level of staff required each period.