

Stakeholder Management Project			
N	Q1	Q2	Q3
1	2	1	2
2	1	1	2
3	1	1	1
4	2	2	2
5	2	2	2
6	2	2	2
7	2	2	2
8	2	2	2
9	2	2	2
10	2	2	2
11	2	2	2
12	2	2	2
13	2	2	2
14	2	2	2
15	2	2	2
16	1	2	2
17	1	2	2
18	1	2	2
19	1	2	2
20	1	2	2
21	1	1	2
22	1	1	2
23	1	1	2
24	1	1	2
25	3	2	2
26	1	1	2
27	1	1	1
28	1	1	1
29	1	1	1
30	1	1	1

	Strongly Agree	Agree	Disagree
1) Increased motivation might increase a project team performance.	1	2	3
2) Project team performance depends on the open communication with a project team leader.	1	2	3
3) Performance review might increase a chance of better results for the next project and increase an overall performance of each employee.	1	2	3

<b>Cronbach's alpha</b>	<b>Internal consistency</b>
$\alpha \geq 0.9$	Excellent
$0.9 > \alpha \geq 0.8$	Good
$0.8 > \alpha \geq 0.7$	Acceptable
$0.7 > \alpha \geq 0.6$	Questionable
$0.6 > \alpha \geq 0.5$	Poor
$0.5 > \alpha$	Unacceptable

Strongly disagree	
	4
	4
	4

Anova: Two-Factor Without Replication

<i>SUMMARY</i>	<i>Count</i>	<i>Sum</i>	<i>Average</i>	<i>Variance</i>
Row 1	3	5	1.666666667	0.333333333
Row 2	3	4	1.333333333	0.333333333
Row 3	3	3	1	0
Row 4	3	6	2	0
Row 5	3	6	2	0
Row 6	3	6	2	0
Row 7	3	6	2	0
Row 8	3	6	2	0
Row 9	3	6	2	0
Row 10	3	6	2	0
Row 11	3	6	2	0
Row 12	3	6	2	0
Row 13	3	6	2	0
Row 14	3	6	2	0
Row 15	3	6	2	0
Row 16	3	5	1.666666667	0.333333333
Row 17	3	5	1.666666667	0.333333333
Row 18	3	5	1.666666667	0.333333333
Row 19	3	5	1.666666667	0.333333333
Row 20	3	5	1.666666667	0.333333333
Row 21	3	4	1.333333333	0.333333333
Row 22	3	4	1.333333333	0.333333333
Row 23	3	4	1.333333333	0.333333333
Row 24	3	4	1.333333333	0.333333333
Row 25	3	7	2.333333333	0.333333333
Row 26	3	4	1.333333333	0.333333333
Row 27	3	3	1	0
Row 28	3	3	1	0
Row 29	3	3	1	0
Row 30	3	3	1	0
Column 1	30	45	1.5	0.327586207
Column 2	30	48	1.6	0.248275862
Column 3	30	55	1.833333333	0.143678161

ANOVA

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>
Rows	13.95555556	29	0.481226054	4.038585209
Columns	1.755555556	2	0.877777778	7.366559486
Error	6.911111111	58	0.119157088	
Total	22.62222222	89		
		Cronbach's Test	0.752388535	

<i>P-value</i>	<i>F crit</i>
3.04408E-06	1.662900781
0.001409865	3.155931971

<b>Cronbach's alpha</b>	<b>Internal cor</b>
$\alpha \geq 0.9$	Excellent
$0.9 > \alpha \geq 0.8$	Good
$0.8 > \alpha \geq 0.7$	Acceptable
$0.7 > \alpha \geq 0.6$	Questionab
$0.6 > \alpha \geq 0.5$	Poor
$0.5 > \alpha$	Unacceptat

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Anova: Two-Factor Without Replication

<i>SUMMARY</i>	<i>Count</i>	<i>Sum</i>	<i>Average</i>	<i>Variance</i>
Row 1	4	8	2	0.666666667
Row 2	4	8	2	0.666666667
Row 3	4	8	2	0.666666667
Row 4	4	9	2.25	0.25
Row 5	4	9	2.25	0.25
Row 6	4	9	2.25	0.25
Row 7	4	9	2.25	0.25
Row 8	4	9	2.25	0.25
Row 9	4	9	2.25	0.25
Row 10	4	9	2.25	0.25
Row 11	4	9	2.25	0.25
Row 12	4	9	2.25	0.25
Row 13	4	9	2.25	0.25
Row 14	4	9	2.25	0.25
Row 15	4	9	2.25	0.25
Row 16	4	9	2.25	0.25
Row 17	4	9	2.25	0.25
Row 18	4	9	2.25	0.25
Row 19	4	9	2.25	0.25
Row 20	4	9	2.25	0.25
Row 21	4	8	2	0.666666667
Row 22	4	7	1.75	0.25
Row 23	4	7	1.75	0.25
Row 24	4	7	1.75	0.25
Row 25	4	8	2	0
Row 26	4	7	1.75	0.25
Row 27	4	6	1.5	0.333333333
Row 28	4	4	1	0
Row 29	4	5	1.25	0.25
Row 30	4	7	1.75	0.25
Row 31	4	5	1.25	0.25
Row 32	4	5	1.25	0.25
Row 33	4	5	1.25	0.25
Column 1	33	54	1.636363636	0.238636364
Column 2	33	59	1.787878788	0.172348485
Column 3	33	85	2.575757576	0.376893939
Column 4	33	60	1.818181818	0.153409091

ANOVA

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>
Rows	19.22727273	32	0.600852273	5.294853964
Columns	17.60606061	3	5.868686869	51.7162726
Error	10.89393939	96	0.113478535	
Total	47.72727273	131		
		Cronbach's Test	0.811137379	

<b>Cronbach's alpha</b>	<b>Internal consistency</b>
$\alpha \geq 0.9$	Excellent
$0.9 > \alpha \geq 0.8$	Good
$0.8 > \alpha \geq 0.7$	Acceptable
$0.7 > \alpha \geq 0.6$	Questionable
$0.6 > \alpha \geq 0.5$	Poor
$0.5 > \alpha$	Unacceptable

<i>P-value</i>	<i>F crit</i>
1.10327E-10	1.564048497
5.58336E-20	2.699392598

Project Time Management				
N-33	Q1	Q2	Q3	Q4
1	1	2	3	2
2	1	2	3	2
3	1	2	3	2
4	2	2	3	2
5	2	2	3	2
6	2	2	3	2
7	2	2	3	2
8	2	2	3	2
9	2	2	3	2
10	2	2	3	2
11	2	2	3	2
12	2	2	3	2
13	2	2	3	2
14	2	2	3	2
15	2	2	3	2
16	2	2	3	2
17	2	2	3	2
18	2	2	3	2
19	2	2	3	2
20	2	2	3	2
21	1	2	3	2
22	1	2	2	2
23	1	2	2	2
24	1	2	2	2
25	2	2	2	2
26	2	2	2	1
27	1	1	2	2
28	1	1	1	1
29	1	1	2	1
30	2	1	2	2
31	1	1	2	1
32	1	1	2	1
33	2	1	1	1

1) Experts' opinion is very important for the team performance, it might positively impact the outcome of the project.

2) Gantt diagram is very effective tool to allocate every team member's time properly.
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3) Critical path method helps to save time and cut costs.
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4) Group decision process usually might prolong the final decision hence project time management.
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Strongly Agree	Agree	Disagree	Strongly disagree
1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4

Anova: Two-Factor Without Replication

<i>SUMMARY</i>	<i>Count</i>	<i>Sum</i>	<i>Average</i>	<i>Variance</i>
Row 1	2	2	1	0
Row 2	2	2	1	0
Row 3	2	2	1	0
Row 4	2	2	1	0
Row 5	2	2	1	0
Row 6	2	2	1	0
Row 7	2	2	1	0
Row 8	2	2	1	0
Row 9	2	2	1	0
Row 10	2	2	1	0
Row 11	2	2	1	0
Row 12	2	3	1.5	0.5
Row 13	2	2	1	0
Row 14	2	2	1	0
Row 15	2	2	1	0
Row 16	2	2	1	0
Row 17	2	2	1	0
Row 18	2	2	1	0
Row 19	2	2	1	0
Row 20	2	4	2	0
Row 21	2	2	1	0
Row 22	2	2	1	0
Row 23	2	2	1	0
Row 24	2	2	1	0
Row 25	2	2	1	0
Column 1	25	26	1.04	0.04
Column 2	25	27	1.08	0.076667

ANOVA

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>
Rows	2.32	24	0.096667	4.833333	0.000133
Columns	0.02	1	0.02	1	0.327287
Error	0.48	24	0.02		
Total	2.82	49			
		Cronbach's Test	0.793103		

<b>Cronbach's alpha</b>	<b>Internal consistency</b>
$\alpha \geq 0.9$	Excellent
$0.9 > \alpha \geq 0.8$	Good
$0.8 > \alpha \geq 0.7$	Acceptable
$0.7 > \alpha \geq 0.6$	Questionable
$0.6 > \alpha \geq 0.5$	Poor
$0.5 > \alpha$	Unacceptable

<i>F crit</i>
1.98376
4.259677

Quality project Management

N-25	Q1	Q2
1	1	1
2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1
9	1	1
10	1	1
11	1	1
12	1	2
13	1	1
14	1	1
15	1	1
16	1	1
17	1	1
18	1	1
19	1	1
20	2	2
21	1	1
22	1	1
23	1	1
24	1	1
25	1	1

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Quality	Strongly Agree	Agree	Disagree	Strongly disagree
1) Cost benefit analysis might affect an overall quality of project.	1	2	3	4
2) Inspections and audits might reveal the areas where the quality might be improved.	1	2	3	4

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Anova: Two-Factor Without Replication

<i>SUMMARY</i>	<i>Count</i>	<i>Sum</i>	<i>Average</i>	<i>Variance</i>
Row 1	4	7	1.75	0.25
Row 2	4	10	2.5	0.333333
Row 3	4	7	1.75	0.25
Row 4	4	7	1.75	0.25
Row 5	4	7	1.75	0.25
Row 6	4	7	1.75	0.25
Row 7	4	8	2	0
Row 8	4	8	2	0.666667
Row 9	4	8	2	0
Row 10	4	5	1.25	0.25
Column 1	10	20	2	0.222222
Column 2	10	16	1.6	0.488889
Column 3	10	17	1.7	0.233333
Column 4	10	21	2.1	0.1

ANOVA

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>
Rows	3.6	9	0.4	1.862069	0.102276
Columns	1.7	3	0.566667	2.637931	0.069884
Error	5.8	27	0.214815		
Total	11.1	39			
		Cronbach's Test	0.462963		

<i>F crit</i>
2.250131
2.960351

<b>Cronbach's alpha</b>	<b>Internal consistency</b>
$\alpha \geq 0.9$	Excellent
$0.9 > \alpha \geq 0.8$	Good
$0.8 > \alpha \geq 0.7$	Acceptable
$0.7 > \alpha \geq 0.6$	Questionable
$0.6 > \alpha \geq 0.5$	Poor
$0.5 > \alpha$	Unacceptable

N-10

HR Management

	q1	q2	q3	q4	
1	2	1	2	2	
2	2	3	2	3	
3	2	2	1	2	
4	2	1	2	2	
5	2	1	2	2	
6	2	1	2	2	
7	2	2	2	2	
8	3	2	1	2	
9	2	2	2	2	
10	1	1	1	2	

HR Management
1) Trainings of employees increases their efficiency within a project and saves time.
2) Recognition is very important factor that influences an overall performance of a team.
3) Negotiation skills are relevant skills to have for an HR Manager
4) Team building activities can bound team members together

Strongly Agree	Agree	Disagree	Strongly disagree
1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4

N-14 Risk Management Project

	Q1	Q2	Q3	
1	1	1	1	3
2		1	1	3
3		1	1	3
4		1	1	3
5		1	1	3
6		1	2	3
7		1	1	3
8		1	1	3
9		1	1	3
10		1	1	3
11		2	2	3
12		2	2	3
13		1	1	3
14		1	1	3

	Strongly Agree
1) Experts' opinions help to reconsider company's direction and avoid risks.	1
2) Modelling techniques help to avoid risk without any costs.	1
3) What if scenario is vital for board management.	1

Agree	Disagree	Strongly disagree
2	3	4
2	3	4
2	3	4

Anova: Two-Factor Without Replication

<i>SUMMARY</i>	<i>Count</i>	<i>Sum</i>	<i>Average</i>	<i>Variance</i>
Row 1	3	5	1.666667	1.333333
Row 2	3	5	1.666667	1.333333
Row 3	3	5	1.666667	1.333333
Row 4	3	5	1.666667	1.333333
Row 5	3	5	1.666667	1.333333
Row 6	3	6	2	1
Row 7	3	5	1.666667	1.333333
Row 8	3	5	1.666667	1.333333
Row 9	3	5	1.666667	1.333333
Row 10	3	5	1.666667	1.333333
Row 11	3	7	2.333333	0.333333
Row 12	3	7	2.333333	0.333333
Row 13	3	5	1.666667	1.333333
Column 1	13	15	1.153846	0.141026
Column 2	13	16	1.230769	0.192308
Column 3	13	39	3	0

ANOVA

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>
Rows	2.358974	12	0.196581	2.875	0.013335
Columns	28.35897	2	14.17949	207.375	7.18E-16
Error	1.641026	24	0.068376		
Total	32.35897	38			
		Cronbach's Test	0.652174		
			0.652174		

<b>Cronbach's alpha</b>	<b>Internal consistency</b>
$\alpha \geq 0.9$	Excellent
$0.9 > \alpha \geq 0.8$	Good
$0.8 > \alpha \geq 0.7$	Acceptable
$0.7 > \alpha \geq 0.6$	Questionable
$0.6 > \alpha \geq 0.5$	Poor
$0.5 > \alpha$	Unacceptable

<i>F crit</i>
2.18338
3.402826

Anova: Two-Factor Without Replication

<i>SUMMARY</i>	<i>Count</i>	<i>Sum</i>	<i>Average</i>	<i>Variance</i>
Row 1	2	3	1.5	0.5
Row 2	2	3	1.5	0.5
Row 3	2	3	1.5	0.5
Row 4	2	3	1.5	0.5
Row 5	2	3	1.5	0.5
Row 6	2	5	2.5	0.5
Row 7	2	3	1.5	0.5
Row 8	2	3	1.5	0.5
Row 9	2	3	1.5	0.5
Row 10	2	3	1.5	0.5
Row 11	2	4	2	0
Row 12	2	3	1.5	0.5
Row 13	2	3	1.5	0.5
Row 14	2	3	1.5	0.5
Row 15	2	4	2	0
Row 16	2	3	1.5	0.5
Row 17	2	3	1.5	0.5
Row 18	2	3	1.5	0.5
Row 19	2	3	1.5	0.5
Row 20	2	3	1.5	0.5
Row 21	2	3	1.5	0.5
Row 22	2	3	1.5	0.5
Row 23	2	5	2.5	0.5
Row 24	2	3	1.5	0.5
Row 25	2	3	1.5	0.5
Row 26	2	3	1.5	0.5
Row 27	2	3	1.5	0.5
Row 28	2	3	1.5	0.5
Row 29	2	3	1.5	0.5
Row 30	2	3	1.5	0.5
Row 31	2	6	3	0
Row 32	2	3	1.5	0.5
Row 33	2	3	1.5	0.5
Row 34	2	3	1.5	0.5
Row 35	2	3	1.5	0.5
Row 36	2	3	1.5	0.5
Row 37	2	3	1.5	0.5
Row 38	2	3	1.5	0.5
Row 39	2	6	3	0
Row 40	2	3	1.5	0.5
Row 41	2	3	1.5	0.5
Row 42	2	3	1.5	0.5
Row 43	2	3	1.5	0.5
Row 44	2	5	2.5	4.5
Column 1	44	52	1.181818	0.245243
Column 2	44	94	2.136364	0.167019

ANOVA					
<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>
Rows	13.77273	43	0.320296	3.482759	3.96E-05
Columns	20.04545	1	20.04545	217.9655	1.92E-18
Error	3.954545	43	0.091966		
Total	37.77273	87			
		Cronbach's Test	0.712871		

<b>Cronbach's alpha</b>	<b>Internal consistency</b>
$\alpha \geq 0.9$	Excellent
$0.9 > \alpha \geq 0.8$	Good
$0.8 > \alpha \geq 0.7$	Acceptable
$0.7 > \alpha \geq 0.6$	Questionable

<i>F crit</i>	
1.660744	
4.067047	

$0.5 > \alpha$	Unacceptable
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N-44 Procurement Project Management

	Q1	Q2	
1	1		2
2		1	2
3		1	2
4		1	2
5		1	2
6		2	3
7		1	2
8		1	2
9		1	2
10		1	2
11		2	2
12		1	2
13		1	2
14		1	2
15		2	2
16		1	2
17		1	2
18		1	2
19		1	2
20		1	2
21		1	2
22		1	2
23		2	3
24		1	2
25		1	2
26		1	2
27		1	2
28		1	2
29		1	2
30		1	2
31		3	3
32		1	2
33		1	2
34		1	2
35		1	2
36		1	2
37		1	2
38		1	2
39		3	3
40		1	2
41		1	2
42		1	2
43		1	2
44		1	4

	Strongly Agree	Agree	Disagree	Strongly disagree
1) Market search is vital to save costs and find cheaper vendors.	1	2	3	4
2) Contract change control helps to save money.	1	2	3	4

Anova: Two-Factor Without Replication

<i>SUMMARY</i>	<i>Count</i>	<i>Sum</i>	<i>Average</i>	<i>Variance</i>
Row 1	3	3	1	0
Row 2	3	3	1	0
Row 3	3	4	1.333333333	0.333333
Row 4	3	4	1.333333333	0.333333
Row 5	3	3	1	0
Row 6	3	4	1.333333333	0.333333
Row 7	3	6	2	0
Row 8	3	6	2	0
Row 9	3	4	1.333333333	0.333333
Row 10	3	4	1.333333333	0.333333
Column 1	10	13	1.3	0.233333
Column 2	10	12	1.2	0.177778
Column 3	10	16	1.6	0.266667

ANOVA

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>
Rows	3.633333	9	0.403703704	2.945946
Columns	0.866667	2	0.433333333	3.162162
Error	2.466667	18	0.137037037	
Total	6.966667	29		
		Cronbach's Test	0.660550459	

<b>Cronbach's alpha</b>	<b>Internal consistency</b>
$\alpha \geq 0.9$	Excellent
$0.9 > \alpha \geq 0.8$	Good
$0.8 > \alpha \geq 0.7$	Acceptable
$0.7 > \alpha \geq 0.6$	Questionable
$0.6 > \alpha \geq 0.5$	Poor
$0.5 > \alpha$	Unacceptable

<i>P-value</i>	<i>F crit</i>
0.024407	2.456281
0.06654	3.554557

N10 Stakeholder Management

	Q1	Q2	Q3
1	1	1	1
2	1	1	1
3	1	1	2
4	1	1	2
5	1	1	1
6	2	1	1
7	2	2	2
8	2	2	2
9	1	1	2
10	1	1	2

	Strongly Agree	Agree	Disagree	Strongly disagree
1) Only board management deals with the stakeholders	1	2	3	4
2) Analytical techniques help the board management to understand the direction of the market	1	2	3	4
3) Expert judgment might help the board management to negotiate the criteria of contracts.	1	2	3	4