

Risk Management Plan Quantitative Analysis

From PMGT501

By

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PMGT 690

June 25, 2017

Quantitative Risk Analysis from PMGT613
Risk Management Plan (RMP)

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PMGT 690

June 28, 2017

Z-LAM ENTERPRISE NEW OPERATING MODEL
RISK MANAGEMENT PLAN

Version Number: 3.0
Version Date: 05/15/2016

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A Paper
Submitted to ERAU Worldwide
in Partial Fulfillment of the Requirements of the
Master Science Degree Course
PMGT 613

Embry-Riddle Aeronautical University
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2.4.2 Quantitative Risk Analysis – Excel QM. All figures were compiled using Microsoft QM- Excel except for the information given in the order of precedence table and costs for crashing table.

Table 2.4.2

Data time and predecessors input table

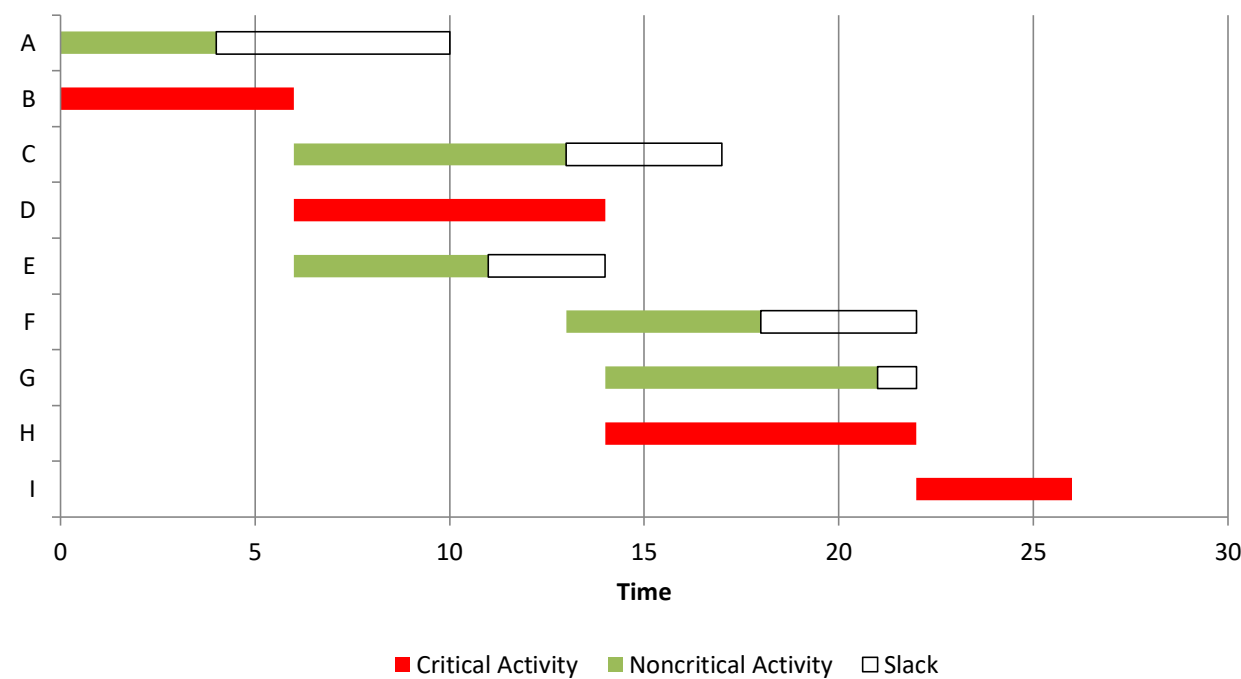
Activity	Time	Pred 1	Pred 2	Pred 3
A	4			
B	6			
C	7	A	B	
D	8	B		
E	5	B		
F	5	C		
G	7	D		
H	8	D	E	
I	4	F	G	H

Data provided as part of the course materials. Table

2.4.2a Data Input, Early Start- Late Finish

Activity	Early Start	Early Finish	Late Start	Late Finish	Slack
A	0	4	6	10	6
B	0	6	0	6	0
C	6	13	10	17	4
D	6	14	6	14	0
E	6	11	9	14	3
F	13	18	17	22	4
G	14	21	15	22	1
H	14	22	14	22	0
I	22	26	22	26	0
Project		26			

Figure 2.4.2 Gantt chart



Crashing costs. As requested the following is the cost of crashing the project to a 14 day schedule is (see Figure 2.4.2a for cost data):

Project Goal	14 days
Normal time	26
Minimum Time	12
Minimum crash cost to meet Project Goal	\$25,997.67

Figure 2.4.2a Data Input for Crashing Cost

					Immediate Predecessors (1 per column)					Intermediate Computations		
	Normal	Crash		Total Cost	Immedia							
Activity	Time (weeks)	Time (weeks)	Cost	with Crashing	te Predeces sor(s)	Pred 2	Pred 3	Pred 4	Crash days	Crash cost/day	Crash limit	
A	4	1	\$8,000	\$9,500					3	500	3	
B	6	2	\$12,000	\$15,000					4	750	4	
C	7	3	\$14,000	\$20,000	A	B			4	1500	4	
D	8	4	\$19,000	\$31,000	B				4	3000	4	
E	5	2	\$13,000	\$15,000	B				3	666.6667	3	
F	5	3	\$9,000	\$10,500	C				2	750	2	
G	7	2	\$16,500	\$20,500	D				5	800	5	
H	8	4	\$22,000	\$34,000	D	E			4	3000	4	
I	4	2	\$5,500	\$6,500	F	G	H		2	500	2	