

Name:

Assignment D5

This activity focuses on Domain 5. Complete the following short exercises (here or on a separate doc) and submit this to Canvas. This activity is an independent thought exercise for you to complete and should not include bulk copying/pasting from the textbook or outside sources. You may reference outside or assigned material to support your positions, but the synthesis and rationale must be your own.

1. **Domain 5: Network Diagrams and Critical Path**

Watch the linked videos, then use the following information to create a Finish-to-Start (FS) Precedence Diagram. Then: identify all possible paths; calculate the ES, LS, EF, LF, duration and slack; and identify the critical path.

[How to draw a Precedence Diagram and Determine Duration and Critical Path](#)

[How to Calculate Slack](#)

Activity	Preceding Activity	Estimate (in days)
A	---	1
B	A	2
C	A	6
D	B, C	5
E	C	9
F	C	1
G	D	4
H	E, F	3
I	E	3
J	I, G	7
K	H, J	2

All possible Paths, along with Duration and Slack of each Path:

Ex. Path 1: Begin – Activity 1- Activity 3 – Activity 4 – Activity 7 – End Duration: 36 days Slack: 0 day

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2. Your project manager just told you that Activity F will be delayed by 1 week (7 days). How does this affect your total project duration?