

CEE 536
Problem Set 7

Time-Cost Tradeoff

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October 23, 2025
Due: November 6, 2025

Time and cost data for a small project are given below.

1. Construct a precedence network for the project at its Normal point and compute ESD, EFD, TF and FF on the network.
2. Determine the minimum direct cost curve for the project indicating the Normal point, the Crash point and the All Crash point. Assume that all activity time-cost relationships are linear. (Photocopy and use the blank time-cost tables provided in the Course Notes.)
3. Repeat question (1) when the project is at its All Crash point.
4. Repeat question (2) starting at the All Crash point.

ACT No.	ACT	PRECEDING ACT	NORMAL		CRASH	
			DUR(T _n)	COST(C _n)	DUR(T _c)	COST(C _c)
5	A	--	3	450	2	580
10	B	A	5	1250	4	1700
15	C	A	6	2200	2	2800
20	E	B	4	3460	3	3780
25	F	B	7	4125	4	6030
30	G	B,C	7	5500	4	6730
35	L	E	4	2720	2	3020
40	M	E,F,G	3	1830	2	2030
45	N	F,G	5	1500	5	1500
50	P	L,M	4	900	2	1100
55	Q	P,N	1	620	1	620