

“Project Management Using Earned Value”
Case Study Solution 10.1

10.1

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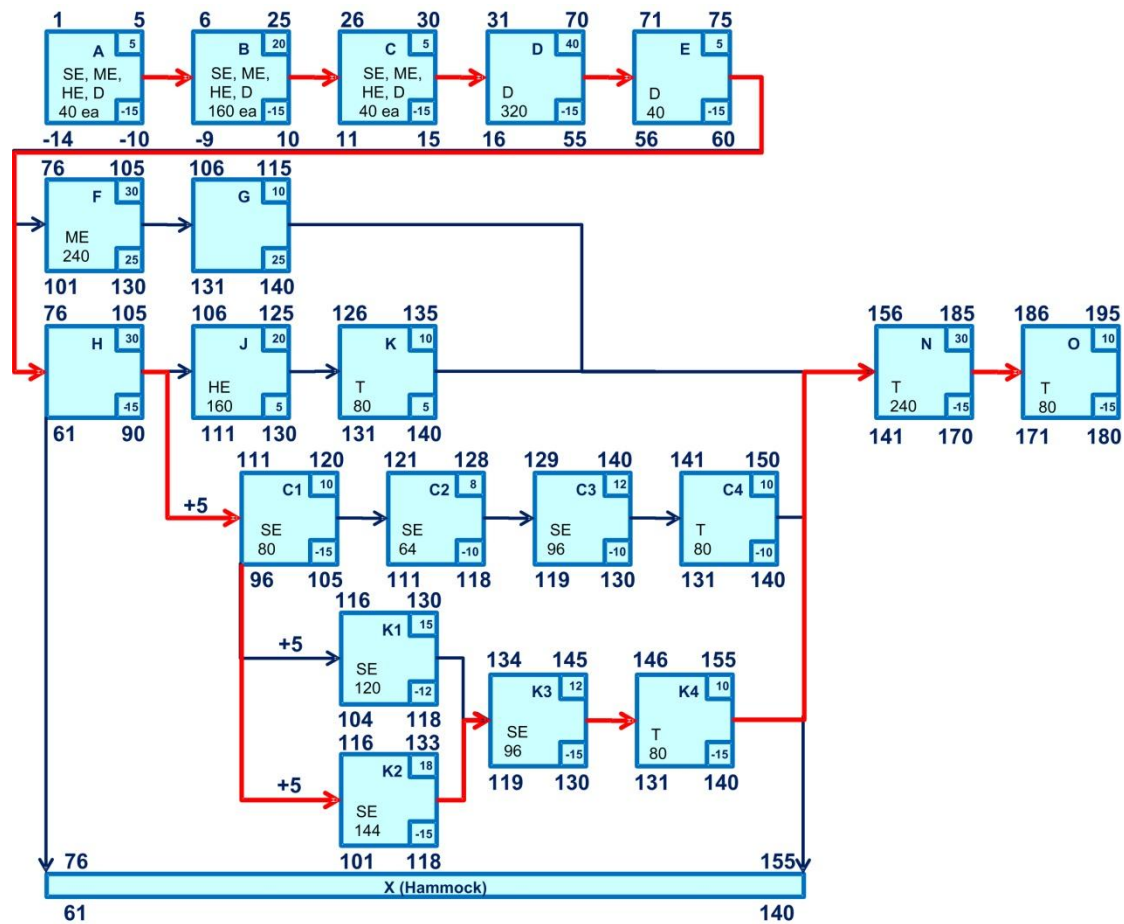
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Build a

Network Schedule

Robotic Arm Project



1. Total float on the critical path is -15 days.
2. Resource totals: SE 960 hours, HE 520 hours, ME 600 hours, T 560 hours, D 600 hours.

Activ. ID	Fragnet ID	Resources					
		SE	HE	ME	T	D	Total
A		40	40	40		40	160
B		160	160	160		160	640
C		40	40	40		40	160
D						320	320
E						40	40
F				240			240
G							0
H							0
J			160				160
K					80		80
L							0
M	C1	80					80
	C2	64					64
	C3	96					96
	C4				80		80
							0
	K1	120					120
	K2	144					144
	K3	96					96
N	K4				80		80
							0
O		120	120	120	240		600
P					80		80
Total		960	520	600	560	600	3240

3. Hammock ES = day 76, EF = day 155.

4. The following thresholds would be exceeded or not met:

- #7 Negative float: 13 activities, or 56% of the total, have negative float thus exceeding the goal of 5%. The schedule should be evaluated – the end date is not achievable without logic or duration modifications.
- #10 No assigned resources. Goal is 0%, 2 activities without resources assigned, or 8%

No other thresholds were exceeded or were valid at this early stage of schedule development.