

“Project Management Using Earned Value”  
Case Study Solution 10.1

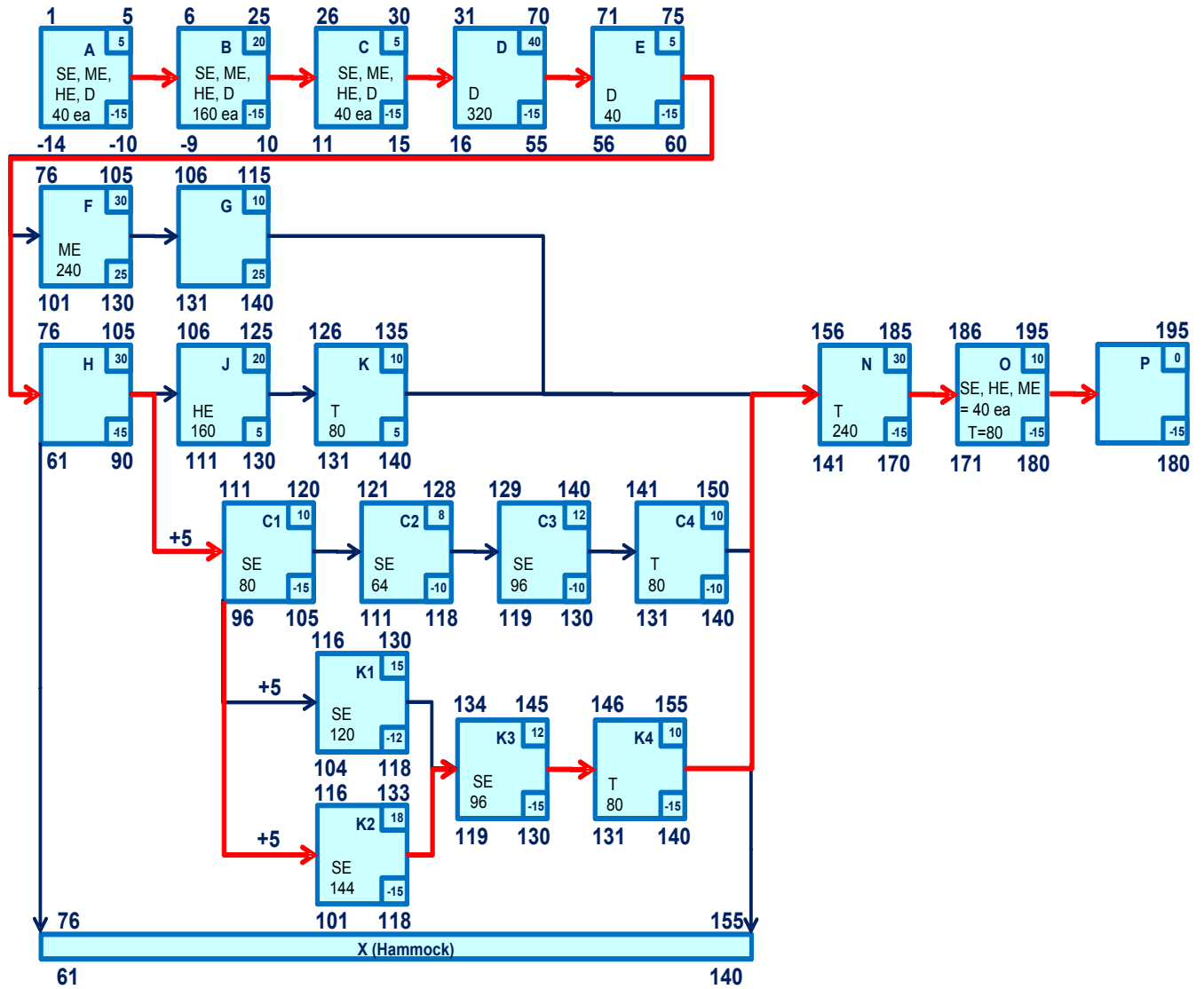
10.1

C A S E

S  
T  
U  
D  
Y

Build a  
Network Schedule

## Robotic Arm Project



1. Total float on the critical path is -15 days.
2. Resource totals: SE 880 hours, HE 440 hours, ME 520 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
N	K1	120					120
	K2	144					144
	K3	96					96
	K4				80		80
O				240		240	
P		40	40	40	80		200
Total		<b>880</b>	<b>440</b>	<b>520</b>	<b>560</b>	<b>600</b>	3000

3. Hammock ES = day 76, EF = day 155.
4. The following thresholds would be exceeded or not met:
  - a. #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.
  - b. #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.