

13 TO SOLVE TWO AS A REGULAR CPM PROBLEM, IT IS NECESSARY TO CALCULATE  $E_{\text{mean}}$  AND  $\sigma$  FOR EACH ACTIVITY. FOR ACTIVITY A,

$$E_{\text{mean}} = \frac{1}{6} [1 + (4)(2) + 5] = 2.33$$

$$\sigma_A = \frac{1}{6} (5-1) = .67$$

THE FOLLOWING TABLE IS GENERATED IN THE SAME MANNER.

| ACTIVITY | $E_{\text{mean}}$ | $\sigma$ |
|----------|-------------------|----------|
| START    | 0                 | 0        |
| A        | 2.33              | .67      |
| B        | 10.5              | 2.17     |
| C        | 11.83             | 2.17     |
| D        | 4.17              | .83      |
| FINISH   | 0                 | 0        |



BY OBSERVATION, THE CRITICAL PATH IS START-A-B-C-D-FINISH. THE PROJECT VARIANCE IS

$$\sigma^2 = (.67)^2 + (2.17)^2 + (2.17)^2 + (.83)^2 = 10.56$$

THE PROJECT STANDARD DEVIATION IS

$$\sigma = \sqrt{10.56} = 3.25$$

SO, WE ASSUME THE COMPLETION TIMES ARE NORMALLY DISTRIBUTED WITH A MEAN OF 28.83 AND A STANDARD DEVIATION OF 3.25

THE STANDARD NORMAL VARIABLE IS

$$Z = \frac{28.83 + .5 - 42}{3.25} = .56$$

AREA UNDER TAIL FOR  $Z = .56$  IS .2123  
 $.50 - .2123 = .2877$  (28.77%)



14  $\lambda = 20$

FROM PAGE 1-22,

$$(a) P\{X=17\} = P(17) = \frac{e^{-20} (20)^{17}}{17!} = .076$$

$$\begin{aligned}
 (b) P\{X \leq 3\} &= P(0) + P(1) + P(2) + P(3) \\
 &= \frac{e^{-20} (20)^0}{0!} + \frac{e^{-20} (20)^1}{1!} + \frac{e^{-20} (20)^2}{2!} + \frac{e^{-20} (20)^3}{3!} \\
 &= 2.88 \times 10^{-9} + 4.12 \times 10^{-8} + 4.12 \times 10^{-7} + 2.75 \times 10^{-6} \\
 &= 3.2 \times 10^{-6}
 \end{aligned}$$

15 FROM PAGE 1-22,

$$\mu = 1/23$$

$$P\{X > 25\} = 1 - F(25) = e^{-\left(\frac{1}{23}\right)(25)} = .337$$

# Mechanical Engineering Solution Manual

**Lei Shi**



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