

Chapter 5 Solutions

1. a. $\text{Utilization} = \frac{\text{Actual output}}{\text{Design capacity}} = \frac{7}{10} = 70\%$
 $\text{Efficiency} = \frac{\text{Actual output}}{\text{Effective capacity}} = \frac{7}{8} = 87.5\%$
- b. $\text{Utilization} = \frac{\text{Actual output}}{\text{Design capacity}} = \frac{4}{6} = 67\%$
 $\text{Efficiency} = \frac{\text{Actual output}}{\text{Effective capacity}} = \frac{4}{5} = 80\%$
- c. This is not necessarily true. If the design capacity is relatively high, the utilization could be low even though the efficiency was high.

2. $\text{Efficiency} = \frac{\text{Actual output}}{\text{Effective capacity}} = 80\%$
Actual output = .8 (Effective capacity)
Effective capacity = .5 (Design capacity)
Actual output = (.5)(.8)(Effective capacity)
Actual output = (.4)(Design capacity)
Actual output = 8 jobs
Utilization = .4
 $\text{Utilization} = \frac{\text{Actual output}}{\text{Design capacity}}$
 $\text{Design Capacity} = \frac{\text{Actual output}}{\text{Effective capacity}} = \frac{8}{.4} = 20 \text{ jobs}$

3. FC = \$9,200/month
VC = \$.70/unit
Rev = \$.90/unit

- a. $Q_{\text{BEP}} = \frac{\text{FC}}{\text{Rev} - \text{VC}} = \frac{\$9,200}{\$.90 - \$.70} = 46,000 \text{ units}$
- b. Profit = Rev x Q - (FC + VC x Q)
1. $P_{\$3,000} = \$.90(61,000) - [\$9,200 + \$.70(61,000)] = \$3,000$
 2. $P_{\$8,200} = \$.90(87,000) - [\$9,200 + \$.70(87,000)] = \$8,200$

Solutions (continued)

- c. $Q = \frac{\text{Specified profit} + \text{FC}}{\text{Rev} - \text{VC}} = \frac{\$16,000 + \$9,200/\text{month}}{\$.90/\text{unit} - \$.70/\text{unit}} = 126,000 \text{ units}$

Operations Management Chapter Solutions

Rob Dekkers



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