

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 5 Solutions

Shasha Hu



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web may 7 2020 pernyataan ini dapat dibuktikan dengan rumus menghitung rpm dibawah ini $\text{rpm} = \frac{f \times 120}{p}$ rpm rotation per minute jumlah putaran dalam satu menit f frekuensi hz p pole jumlah kutub magnet jika sebuah motor listrik memiliki 4 kutub magnet pole dan frekuensi sebesar 50hz nilai frekuensi ini adalah rata rata frekuensi

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web lain hal pada putaran rendah motor listrik bisa menghasilkan torsi besar dan bekerja dengan efisiensi tinggi karena itulah mobil hybrid menggunakan listrik untuk memutar motor listrik yang disimpan di baterai untuk menjalankan pada saat

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web torsi pada motor dapat ditentukan dengan rumus umum yaitu $t = \frac{P}{\omega}$ atau $t = \frac{P}{2\pi n}$ 60 t torsi motor n m p daya motor w att n jumlah putaran motor rp m terdapat 3 macam daya yaitu daya celah udara p12 daya rotor p2 dan daya keluaran po oleh karena itu torsi pada motor induksi 3 fasa dibedakan menjadi torsi

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web dan menariknya kita juga dapat memperhitungkan putaran rotor per menit rpm pada sebuah dinamo motor listrik dengan menggunakan rumus berikut ini $\text{rpm} = \frac{f \times 120}{p}$ keterangan

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apabila kamu hendak mengetahui cara menghitung torsi gearbox seperti belt conveyor dengan putaran 15 rpm dengan listrik 1500 rpm dan gearbox yang ada memiliki ratio 50 maka torsi nya dapat dihitung dengan rumus n_2

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