
11: Hoe voer je voorraadbeheer uit?

Formule 1:

$$P \leq \frac{C_u}{(C_o + C_u)}$$

Formule 2:

$$TC = DC + \frac{D}{Q}S + \frac{Q}{R}H$$

Formule 3:

$$\frac{dTC}{dQ} = 0 + \left(\frac{-DS}{Q^2}\right) + \frac{H}{2} = 0$$

$$Q_{opt} = \sqrt{\frac{2DS}{H}}$$

Formule 4:

$R = \bar{d} \cdot L$, waarbij \bar{d} de gemiddelde dagelijkse vraag is en L de lead time in dagen.

Formule 5:

$$R = \bar{d} \cdot L + z\sigma_L$$

R = reorder point in units

\bar{d} = average daily demand

L = lead time in days

z = number of standard deviations for a specified service probability

σ_L = standard deviation of usage during lead time

Formule 6:

$$d = \frac{\sum_{i=1}^n d_i}{n}$$

$$\sigma = \sqrt{\frac{\sum_{i=1}^n (d_i - d)^2}{n}}$$

Formule 7:

$$\sigma_L = \sqrt{\sigma_1^2 + \sigma_2^2 + \dots + \sigma_L^2}$$

$$SS = z\sigma_L$$

Formule 8:

$$SS = z\sigma_{T+L}$$

Formule 9:

$$q = \bar{d}(T+L) + z\sigma_{T+L} - I$$