



Construction Management Formulas

Calculators!

Examples!

Conversions!

Bookmark calculatoratoz.com, unitsconverters.com

Widest Coverage of Calculators and Growing - 30,000+ Calculators! Calculate With a Different Unit for Each Variable - In built Unit Conversion! Widest Collection of Measurements and Units - 250+ Measurements!

Feel free to SHARE this document with your friends!

Please leave your feedback here...





List of 28 Construction Management Formulas























5/13







Open Calculator

Open Calculator

Open Calculator

20) Book Value for New Machine 🕑



21) Capacity of Crankcase when Quantity of Oil is Determined

fx
$$\mathbf{C} = 5 \cdot \mathbf{t} \cdot \left(\mathbf{Q} - \left(\mathrm{HP} \cdot \eta \cdot \frac{0.0027}{0.74} \right)
ight)$$

ex
$$29.86486L = 5 \cdot 100h \cdot \left(0.41L/h - \left(160hp \cdot 0.6 \cdot \frac{0.0027}{0.74} \right) \right)$$

22) Capital Cost when Salvage Value is 0 子

fx
$$P_{Capital} = rac{2 \cdot n \cdot I_a}{1 + n}$$

ex $1999.954 = rac{2 \cdot 5 ext{Year} \cdot 1000}{1 + 5 ext{Year}}$

23) Depreciation Cost when Straight Line Method is Assumed 🗹











28) Quantity of Lubricating Oil C
fx
$$Q = \left(HP \cdot \eta \cdot \frac{0.0027}{0.74}\right) + \left(\frac{C}{5 \cdot t}\right)$$
 Open Calculator C
ex $0.41027L/h = \left(160hp \cdot 0.6 \cdot \frac{0.0027}{0.74}\right) + \left(\frac{30L}{5 \cdot 100h}\right)$





Variables Used

- C Crankcase Capacity (Liter)
- C_{bv} Book Value
- CM Contribution Margin per Unit
- D Depreciation
- **D**_h Hourly Depreciation
- **D**_I Lost Days
- FC Fixed Cost
- H_c Hourly Cost
- H_{mh} Machine Hours (Hour)
- HP Engine power (Horsepower)
- la Average Investment
- In Number of Disabling Injuries
- I_r Injury Frequency Rate
- II Injury Index
- L_s Life Span (Hour)
- **n** Useful Life (Year)
- N_{mh} Man Hour
- P Cost of Profit
- Pcapital Capital Cost
- **Q** Quantity of Oil (Liter per hour)
- R_i Injury Severity Rate
- **S**_c Scrap Value



- Sm Monthly Salary
- Ss Salvage
- SP Selling Price
- t Time between Change of Oil (Hour)
- T_c Total Cost
- TR Total Revenue
- TVC Total Variable Cost
- V Variable Cost per Unit
- Volume of Output
- η Operating Factor





Constants, Functions, Measurements used

- Measurement: Time in Year (Year), Hour (h) *Time Unit Conversion*
- Measurement: Volume in Liter (L) Volume Unit Conversion
- Measurement: Power in Horsepower (hp) Power Unit Conversion
- Measurement: Volumetric Flow Rate in Liter per hour (L/h) Volumetric Flow Rate Unit Conversion



Check other formula lists

- Basic Formulas in Construction
 Planning and Management
- Construction Management
 Formulas
- Project Evaluation and Review Technique Formulas
- Valuation Engineering
 Formulas

Feel free to SHARE this document with your friends!

PDF Available in

English Spanish French German Russian Italian Portuguese Polish Dutch

2/23/2024 | 5:37:32 AM UTC

Please leave your feedback here ...



