



# Project Evaluation and Review Technique Formulas

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Examples!

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# List of 25 Project Evaluation and Review Technique Formulas

### Project Evaluation and Review Technique C























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### Quality Control in Construction 🕑

### 18) Average Non-Conformities in Inspected Unit 🕑



#### 19) Average Proportion Non-Confirming



#### 20) Coefficient of Variation

fx 
$$V = \sigma \cdot \frac{100}{AM}$$

$$\begin{array}{c} \textbf{ex} \ 13.28671 = 1.33 \cdot \frac{100}{10.01} \end{array}$$

#### 21) Number Non-Confirming in Sample 🗹



Open Calculator





()

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## Variables Used

- AM Arithmetic Mean
- C\_Average Non-Conformity
- D Defective Units
- Number of Inspected
- **n** Number of Items in Sample
- **nP** Number of Non-Conforming
- p Average Proportion
- P Non-Conforming Proportion
- R Number of Rejected
- RN Reliability Number
- Slack of an Event (Day)
- S<sub>n</sub> Number of Sample
- **t**<sub>0</sub> Optimistic Time (Day)
- te Mean Time (Day)
- t<sub>ii</sub> Duration of i-j (Day)
- t<sub>m</sub> Most Likely Time (Day)
- tp Pessimistic Time (Day)
- **T**<sub>s</sub> Scheduled Time (Day)
- T<sub>u</sub> Tested Units
- **TE<sup>i</sup>** Earliest Occurrence Time of i (Day)
- **TE<sup>j</sup>** Earliest Occurrence Time of j (Day)
- TL<sup>i</sup> LOT of Event i (Day)



- **TL<sup>j</sup>** LOT of Event j (Day)
- **U** Unit Numbers
- V Variation Coefficient
- Z Probability Factor
- **o** Standard Deviation



# **Constants, Functions, Measurements used**

• Measurement: Time in Day (d) *Time Unit Conversion* 





# Check other formula lists

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

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