

### What is EngineRoom?

EngineRoom provides you with a suite of powerful, simple-to-use tools for data analysis and process improvement, delivered within an intuitive, drag-and-drop graphical interface.

Since the application is available online, you can access both the tools and your projects from any place, at any time, on any device with an HTML-5 browser.

### Features List

#### Statistical Tools

##### *Basic Graphs*

- Bar Chart
- Box Plot
- Histogram
- Pie Chart
- Pareto Analysis
- Scatter Plot
- Trend Chart
- Graphical Summary (includes Histogram, Box Plot, Scatter Plot, and optional Trend Chart)
- Distribution Identification

##### *Capability Analysis*

- Process Capability for continuous (normally-distributed) data
- Data transformations
- Process Capability for categorical data (DPMO & sigma level calculator)
- Non-Normal Process Capability for continuous data
- Non-Normal Process Capability for discrete data (Binomial and Poisson distributions)

##### *Measurement System Analysis (MSA)*

- Attribute Agreement Analysis
- Gauge R&R (Variance Components & AIAG)

### *Statistical Process Control (SPC)*

- XmR (for individual observations)
- Xbar-R and Xbar-S
- CUSUM
- EWMA
- c
- g
- np
- p
- u

### *Parametric Hypothesis Tests*

- 1 Proportion
- 2 Proportions
- Multiple Proportions
- 1 Mean t Test
- 2 Means t Test (Paired Samples)
- One-Way ANOVA
- 1 Variance Chi-Square Test
- 2 Variances F Test
- Multiple Variances F Test

### *Non-Parametric Hypothesis Tests*

- 1 Sample Sign
- 1 Sample Wilcoxon
- Paired Samples Sign
- Paired Samples Wilcoxon
- Mann-Whitney Wilcoxon
- Kruskal Wallis
- Friedman

### *Regression*

- Correlation Matrix
- Simple Linear Regression
- Multiple Linear Regression
- Binary Logistic Regression

### *Design of Experiments (DOE)*

- 2-Level Full Factorial Designs (2-7 factors)
- 2-Level Fraction Factorial Designs (3-15 factors)
- General Factorial Designs (2-6 factors, up to 5 levels each)

- Power Analysis as part of design process
- DOE Planning Worksheet
- DOE Design Wizard

#### *Data Transformations*

- Transformations
- Anderson Darling

#### **Modeling and Simulation Tools**

- Process Playground
- Monte Carlo

#### **Diagramming and Mapping Tools**

- Affinity Diagram
- Critical to Quality Characteristics (CTQC) Tree
- Root Cause Tree / Fault Tree Analysis
- Process Flow Chart
- Value Stream Map
- SIPOC

#### **Voice of the Customer/Brainstorming Tools**

- Affinity Diagram
- Critical to Quality Characteristics (CTQC) Tree
- Cause & Effect (C&E) Matrix
- Fishbone (C&E) Diagram
- QFD
- 5 Why

#### **Data Collection Tools**

- Check Sheet
- Data Collection Plan
- Input Screening Report
- Power and Sample Size Calculator

## Product Documentation Tools

- Project Charter
- Project Prioritization Matrix
- RACI Matrix
- Financial Return Calculator
- Stakeholder Template
- Gantt Chart
- Solution Selection
- Pugh Analysis
- Control Plan
- Standard work
- Corrective Action Matrix
- Failure Modes and Effects Analysis (FMEA)
- Project Closeout

## General

- Auto-update of charts when new data is added
- Guided Mode, which explains the usage of each tool
- Annotations and editing capabilities for graphs
- Share projects with people in your organization
- Upload process artifacts and documentation (images, video, documents)
- Embedded team discussion and notes
- 8 languages available (English, Portuguese, Spanish, German, Chinese, Korean, Japanese, French)

### ABOUT MORESTEAM.COM LLC

MoreSteam enables organizations of all sizes to advance their performance by delivering powerful, scalable online training and technology for enterprise process improvement.

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