EngineRoom®

Comparison with Minitab

MoreSteam®

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.

Why Is EngineRoom the Right Choice?

1. Cuts the Cost of Calculation

Deployments are switching to EngineRoom to help realize significant cost savings.

- An EngineRoom license starts at $299 for a single annual license, with group discounts available for the purchase of 5 licenses or more.
- EngineRoom annual licenses are significantly less expensive than Minitab's solutions.
- To get all the features in EngineRoom, you would need to purchase both Minitab and Companion for a cost of $1,200 (annual renewal) or $2499 (non-renewable), plus the cost of Companion, annually per user.

2. Delivers the Tools You Use Most

EngineRoom provides all of the tools used by Green Belts and most Black Belts in 95% of projects.

- Over 80 Lean and Six Sigma tools, templates, tests, and charts.
- Includes Lean and Design for Six Sigma (DFSS) tools (such as Monte Carlo simulation not found in comparable software).
- Tools organized in the familiar Define-Measure-Analyze-Improve-Control (DMAIC) phases, from project planning to completion to presentation. An alternative menu structure, Planning-Charts & Graphs – Quality Tools – Statistics – Lean tools – Project Closeout, is also available for non-Lean Six Sigma users.
- We have recently added Process Playground, our powerful process modeling and discrete event simulation platform, which allows you to map, experiment, optimize, validate, and predict the effect of variation on your processes.

3. Takes Advantage of Mobile Technology

EngineRoom is in step with the future.

- Device independent, so you can access it from your PC, Mac, Linux, or tablet.
- Collaborate and share your data or results instantly with others on your team with the click of a button.

- The latest, most up-to-date version is always accessible - no more hassles with updates or IT installations.

4. Designed for Ease of Use

Your focus should be on interpreting the data, not on how to use the tools.

- The tools are simplified, contain step-by-step instructions and color coding, and provide easy-to-interpret, annotated output.
- EngineRoom wizards (Hypothesis testing and DOE) guide users to the appropriate test/design, with a direct option for experienced users.
- Many tools flow naturally into others, such as Affinity Diagrams > CTQC Trees > QFD/Cause & Effect Matrix > Input Screening Report > Control Plan.

5. Supports the Training Process

EngineRoom is especially helpful to Belts in training.

- EngineRoom is integrated with the online MoreSteam course content through tutorials and practice exercises.
- Creates a framework for projects and studies that allows you to organize your data and supporting files, located in one place for easy reference.
- Connected to the TRACtion project management portal.
- Available in 8 languages (English, German, Spanish, Portuguese, French, Chinese, Japanese, Korean).

The EngineRoom Advantage...

Smart Charts
-fully editable, auto-update
-easy to share or place in report
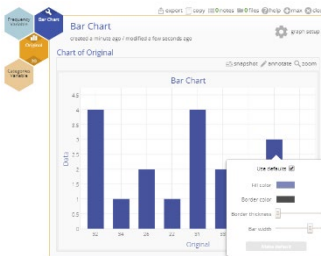
Hypothesis Testing in Plain English™
-step-by-step guidance
-explanation/interpretation of results
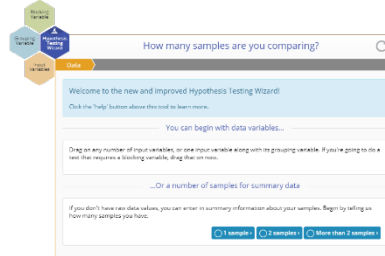
Experimental Design in Plain English™
-step-by-step guidance
-explanation/interpretation of results
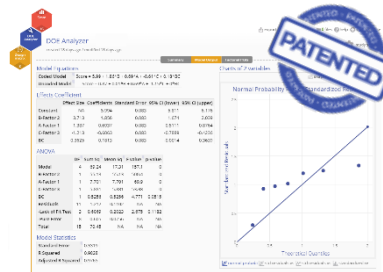
Licensing	Companion by Minitab	Minitab 19	EngineRoom
Single license	Pricing Not Available	$1,200	$299/year
Upgrades	Pricing Not Available	$1,200	-
Upgrade frequency	Every 2 years	Every 2 years	Automatic and continuous

Order	General Features	Companion by Minitab	Minitab 19	EngineRoom
1	Web based access (access from any machine)	with web version	-	✔
2	Runs on a Mac	-	✔	✔
3	Runs on a tablet	-	-	✔
4	Drag and Drop functionality (User interface)	-	-	✔
5	Guides user through the use of the tool	-	with 'Assistant" feature	✔
6	Provides annotated output for ease of interpretation	-	with 'Assistant" feature	✔
7	Critical Thought Map (project organization)	-	-	✔
8	Project file sharing (near real-time collaboration)	with web version	-	✔
9	Available in 8 languages: English, Portuguese, Spanish, German, Chinese, Korean, Japanese, French	-	✔	✔
10	Upload process artifacts for context (images, video, documents)	-	-	✔
11	Embedded team discussion and notes	-	-	✔
12	Live linkage between data and output, auto-update of analyses	-	✔	✔
13	Customizable menu	-	✔	✔ 2 Options Available

Order	Six Sigma Specific Tools	Companion by Minitab	Minitab 19	EngineRoom
1	Affinity Diagram	✔	-	✔
2	Cause & Effect (C&E) Matrix	✔	-	✔
3	Check Sheet	✔	-	✔
4	Control Plan	✔	-	✔
5	Corrective Action Matrix	✔	-	✔
6	Critical To Quality Characteristics (CTQC) Tree	✔	-	✔
7	Data Measurement/Collection Plan	✔	-	✔
8	Failure Modes & Effects Analysis (FMEA)	✔	-	✔
9	Financial Analysis	✔	-	✔
10	Fishbone (C&E) Diagram	✔	-	✔
11	Gantt Chart	✔	-	✔
12	Input Screening	✔	-	✔
13	Monte Carlo Simulation	✔	-	✔
14	Process Modeling/Discrete Event Simulation	-	-	✔
15	Process Flow Chart	✔	-	✔
16	Process Map	✔	-	✔

17	Project Charter	✔	-	✔
18	Project Closeout template	✔	-	✔
19	Project Prioritizer	✔	-	✔
20	Project tracking capability	✔	-	✔ (TRACtion – separate license)
21	Pugh Matrix	✔	-	✔
22	Quality Function Deployment (QFD)	✔ (House of Quality)	-	✔
23	Sigma Level Calculator	✔	-	✔
24	SIPOC	✔	-	✔
25	Solution Selection	✔	-	✔
26	Root Cause (Fault) Tree Analysis	-	-	✔
27	Classification & Regression Tree (CART)	-	✔	-

Order	Lean Tools	Companion by Minitab	Minitab 19	EngineRoom
1	5 Why	-	-	✔
2	5S (CHECK) checklist	✔	-	-
3	A-3 Report	-	-	-
4	Core Process Pull	-	-	✔
5	Little's Law	-	-	✔
6	Replenishment Process Pull	-	-	✔
7	Standard Work	-	-	✔
8	Value Stream Map (VSM)	✔	-	✔

	Data Manipulation	Companion by Minitab	Minitab 19	EngineRoom
1	Data functions (Copy/paste, Select multiple cells, delete/insert rows/columns, Sort	-	✔	✔
2	Descriptive Statistics (numeric/graphical)	-	✔	✔
3	Pivot Table	-	✔	-

	Graphical	Companion by Minitab	Minitab 19	EngineRoom
1	Bar Chart	-	✔	✔
2	Box Plots	-	✔	✔
3	Dotplot	-	✔	✔
4	Histogram	-	✔	✔
5	MultiVari Charts	-	✔	-
6	Pareto Chart	-	✔	✔

		Companion by Minitab	Minitab 19	EngineRoom
7	Scatter plot/Matrix plot	-	✔	✔
8	Trend/Run Chart/Time Series Plot	-	✔	✔
9	Distribution Identification	-	✔	✔
10	Graphical Summary (includes Histogram, Box Plot, Scatter Plot, and optional Trend Chart)	-	✔	✔

Measurement System Analysis		Companion by Minitab	Minitab 19	EngineRoom
1	Attribute Agreement Analysis (Attribute MSA)	-	✔	✔
2	Gauge R&R (Variance Components)	-	✔	✔
3	Gauge R&R (AIAG)	-	✔	✔

Statistical Process Control		Companion by Minitab	Minitab 19	EngineRoom
VARIABLE				
1	CUSUM	-	✔	✔
2	EWMA	-	✔	✔
3	Xbar-R	-	✔	✔
4	Xbar-S	-	✔	✔
5	XmR/ ImR	-	✔	✔
ATTRIBUTE				
1	c	-	✔	✔
2	g	-	✔	✔
3	np	-	✔	✔
4	p	-	✔	✔
5	u	-	✔	✔

Process Capability Analysis		Companion by Minitab	Minitab 19	EngineRoom
1	Process Capability Analysis - Continuous	-	✔	✔
2	Process Capability Analysis - Categorical	-	✔	DPMO, Sigma Level Calculator
3	Process Capability Analysis - Non-Normal Continuous	-	✔	✔
4	Process Capability Analysis - Non-Normal Discrete	-	✔	✔

Correlation and Regression Analysis		Companion by Minitab	Minitab 19	EngineRoom
1	Correlation Matrix	-	✔	✔
2	Generalized Linear Models	-	✔	-
3	Logistic (Binary) Regression	-	✔	✔

		Companion by Minitab	Minitab 19	EngineRoom
4	Multiple Linear Regression	-	✔	✔
5	Nominal (multinomial) Regression	-	✔	-
6	Ordinal Regression	-	✔	-
7	Simple Linear Regression	-	✔	✔

	Hypothesis Tests	Companion by Minitab	Minitab 19	EngineRoom
	PARAMETRIC			
1	1 Proportion Test (Exact Binomial & Z)	-	✔	✔
2	2 Proportions Z Test	-	✔	✔
3	Multiple Proportions Chi-Square Test	-	✔	✔
4	1 Mean t Test	-	✔	✔
5	2 Means (paired) t Test	-	✔	✔
6	2 Means (pooled) t Test	-	✔	✔
7	2 Means (independent) t Test	-	✔	✔
8	One-way ANOVA	-	✔	✔
9	Two-way ANOVA (or one-way with blocking)	-	✔	✔
10	One Variance Chi-Square Test	-	✔	✔
11	Two Variances F Test	-	✔	✔
12	Multiple Variances F (homogeneity) Test	-	✔	✔
13	Chi-Square Test of Independence	-	✔	-
14	Anderson Darling Normality Test	-	✔	✔
	NON-PARAMETRIC			
1	1 Sample Sign	-	✔	✔
2	1 Sample Wilcoxon Signed Ranks Test	-	✔	✔
3	Paired Sample Sign	-	✔	✔
4	Paired Sample Wilcoxon Signed Ranks Test	-	✔	✔
5	2 Sample Mann-Whitney	-	✔	✔
6	Mood's Median	-	✔	-
7	Kruskal Wallis	-	✔	✔
8	Friedman	-	✔	✔

	Confidence Intervals	Companion by Minitab	Minitab 19	EngineRoom
1	Cp, Cpk	-	✔	✔
2	Mean	-	✔	✔
3	Proportion	-	✔	✔
4	Std. Dev.	-	✔	✔

Normality	Minitab Quality Companion 3	Minitab 19	EngineRoom
1 Normality Probability Plot	-	✔	✔
2 Normality Test	-	✔	✔

Power and Sample Size	Minitab Quality Companion 3	Minitab 19	EngineRoom
1 Estimate 1 Proportion	-	✔	✔
2 Estimate 1 Mean	-	✔	✔
3 1 Proportion Test	-	✔	✔
4 2 Proportions Test	-	✔	✔
5 1 Mean t Test	-	✔	✔
6 2 Means t Test	-	✔	✔
7 One-way ANOVA	-	✔	✔
8 Design of Experiments (DOE)	-	✔	✔

Design of Experiments	Minitab Quality Companion 3	Minitab 19	EngineRoom
1 Two-level Full Factorials	-	✔ (2-15 factors)	✔ (2-7 factors)
2 Two-level Fractional Factorials	-	✔ (2-15 factors)	✔ (3-15 factors)
3 General Factorials	-	✔ (2-15 factors)	✔ (2-6 factors, <=5 levels each)
4 Plackett-Burman Designs	-	✔ (2-47 factors)	-
5 Response Surface Methods	-	✔ (2-10 factors)	-
6 Mixture Designs	-	✔ (2-10 factors)	-
7 Taguchi Designs	-	✔	-
8 Includes Power analysis in DOE design process	-	Separate tool, not integrated in DOE	✔