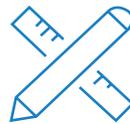


MINITAB STATISTICAL SOFTWARE ADD-ON

# Leverage the Power of Data Analysis with Minitab's Research and Development Module



Describe



Design



Predict

**Research and Development**  
Discover tools commonly used in research and development.

<p><b>Describe Data</b> Investigate the distribution of data, detect outliers, and determine a range of values likely to contain a proportion of the population. <a href="#">Describe Data</a></p>	<p><b>Compare Samples</b> Compare one sample with a target or multiple samples with each other. <a href="#">Compare Samples</a> <a href="#">Calculate Power or Sample Size</a></p>	<p><b>Demonstrate Equivalence</b> Determine whether means are equivalent within a specified range. <a href="#">Demonstrate Equivalence</a> <a href="#">Calculate Power or Sample Size</a></p>
<p><b>Fit One Y, One X</b> Model the relationship between one output variable, Y, and one input variable, X. <a href="#">Fit One Y, One X</a></p>	<p><b>Fit Model</b> Model the relationship between an output variable and multiple input variables. <a href="#">Fit Model</a></p>	<p><b>Understand Relationships</b> Find meaningful relationships and groupings in variables when no distinct input and output variable exists. <a href="#">Understand Relationships</a></p>
<p><b>Design Experiment</b> Design an experiment to systematically investigate the input variables that affect your output variables. <a href="#">Design Experiment</a></p>	<p><b>Estimate Reliability</b> Describe the distribution of failure data and estimate reliability. <a href="#">Estimate Reliability</a></p>	<p><b>Estimate Survival</b> Describe the distribution of survival data and estimate survival probabilities. <a href="#">Estimate Survival</a></p>

## Familiar Terminology

Minitab's Research and Development Module provides a seamless solution for enhancing your data-driven decision-making process. With its intuitive interface and comprehensive set of tools, this module empowers professionals in the R&D field to delve into complex data analysis with the best tools right at their fingertips.

**Describe Data**  
Summarize continuous or categorical data or characterize the distribution of continuous data.

**Summarize data**  
Display descriptive statistics and graphs that summarize continuous or categorical data and detects outliers.

**Characterize distribution**  
Identify an appropriate distribution and determine a range of values likely to contain a specified proportion of the population for continuous data.

### Estimate Survival

Describe the distribution of survival data and estimate survival probabilities.

- Perform survival analysis for data with right-censored event times or no censoring**  
Describe the distribution of event times and estimate survival probabilities when all event times are known, or event times are right-censored.
- Perform survival analysis for interval-censored event times**  
Describe the distribution of event times and estimate survival probabilities when observations have a start time and end time value.
- Fit life data model**  
Use a model to investigate the relationship between event times and one or more X variables.

## Proven Performance

Statistical analysis is one of the many responsibilities of research and development professionals. For over 50 years, Minitab Statistical Software has been the go-to solution for data analysis for reliability engineers. Minitab empowers experts to unlock valuable insights, which can drive innovation and lead to critical breakthroughs.

## On-Demand Assistance

Minitab is with you every step of your analysis. Information icons connect you to support pages with familiar terminology and specific research and development examples, while our industry-leading technical support team is available online or via phone to help.

### Design Experiment

The choice of design depends on your objective and the effects you expect to see. Use a screening design when many factors potentially affect the response, and the goal is to identify which of these factors merit further study. Use a factorial or response surface design when multiple factors are thought to affect the response, and the goal is to identify the optimal factor settings. After creating the design, run your experiment and analyze the results using the corresponding section of the Stat > DOE menu.

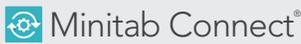
- Identify important factors for further study**  
Create Screening Design
- Estimate main effects and interaction effects**  
Create Factorial Design
- Estimate main effects, interaction effects and curved effects**  
Create Response Surface Design



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[minitab.com](http://minitab.com)

#### Automation and Reporting



Integrate and transform data for analysis, reporting and monitoring

#### Data Analysis & Predictive Modeling



Powerful statistical software everyone can use



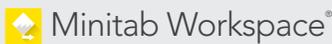
Machine learning and predictive analytics software

#### Model Deployment and Monitoring



Model lifecycle management on a simple yet powerful platform

#### Visual Business Tools



Visual tools to ensure process and product excellence

#### Project Ideation & Execution



Start, track, manage, and execute innovation and improvement initiatives

#### Self-Paced Learning



Master statistics and Minitab anywhere with online training

#### Quality Solutions



Monitor, respond, and deliver immediate quality and process monitoring