



## Minitab Training

You will learn about the practical applications of the latest version of the statistical tool, Minitab® 17 and excel at the tools, and how they are used by both Lean Six Sigma Green Belt and Black Belt professionals. The course curriculum has case studies in different domains like Healthcare, IT and IT Services, and Manufacturing, which will be used to demonstrate the use of Minitab as a solution. The course covers 9 case studies in the domains of Healthcare, IT and IT Services, and Manufacturing, and each case study describes a problem and its solution using Minitab® 17. After completing this course, participants will be able to demonstrate a the understanding and use of Minitab as Six Sigma tools and techniques.

## Key Features

- Exam Simulators
- Hand book course Material
- 24x7 assistance and support
- Peoplecert approved course content
- Course completion certificate
- Money Back Guarantee\*



## Modes of Engagement



### Instructor-Led Classroom Training

4-Day Minitab Certification exam prep classroom training workshops conducted worldwide.



### Instructor-Led Live Online Training

Provided to your company's employees across global locations through Citrix GoToMeeting or Cisco WebEx.



### Self-Placed E-Learning

Anywhere, anytime access to E-Learning through a Learning Management System for employees across the globe.



### Enterprise Training

In-House instructor-led 4-day Minitab certification training in your office across global locations. We can also provide 2-day Minitab Fundamentals training for your team to precede the Minitab certification training.

## **Lesson 01 - Introduction to MINITAB**

- Meanings of Six Sigma
- Introduction to Minitab
- Overview and Imp of Minitab
- Worksheet Format and Structure
- Data Windows Conventions
- Menu Bar Overview

## **Lesson 02 - Interoperability in Minitab**

- Interoperability in Minitab
- Transferring data from MS Excel to Minitab
- Transfer Data from Excel to Minitab Demo
- Exporting Analysis data from Minitab to Word and PPT
- Export Analysis Data from Minitab to PPT and Word Demo
- Exporting data from Session Window to Word and PPT
- Exporting data Session Window to Word and PPT Demo

## **Lesson 03 - Lean Six Sigma Green Belt case study**

- Lean Six Sigma Green Belt case study
- Case Study of Healthcare
- Generate Bar Chart in Minitab
- Generating Bar Chart Demo
- Using Pie Chart
- Pie Chart Demo
- Computing Pareto Chart
- Pareto Chart Demo



- Defining Normality Test
- Normality Test Demo
- Preparing Run Chart
- Run Chart Demo
- Creating Histogram
- Histogram Demo
- Creating Box Plot
- Generate Box Plot Demo
- Categorizing Measuring CT and Spread
- Measuring Central Tendency and Spread Demo 2
- Examine Sample Size Determination
- Sample Size Determination Demo
- Use Control Charts for Continuous Data
- Control Charts for Continuous Data Demo

### **Lesson 04 - Case Study on Lean SS Green Belt**

- Case Study on Lean SS Green Belt
- Sorting Data
- Sorting Data Demo
- Project Duration
- Using Calculator
- Apply Formulas to Columns
- Applying Formulas to Columns Demo
- Changing Data Types
- Changing Data Type Demo



- Process Capability Indices
- Process Capability Indices Demo
- Dot Plot
- Dot Plot Demo
- Individual Value Plot
- Individual Value Plot Demo
- Interval Plot
- Interval Plot Demo
- Scatter Plot
- Scatter Plot Demo
- Calculate Z Value
- Calculate Z Value Demo
- Identify Distribution
- Identify Distribution Demo
- Transform data to Normal distribution
- Transform data to Normal distribution Demo
- Control Charts for Discrete Data
- Control Charts for Discrete Data Demo

### **Lesson 05 - Gage R and R Analysis and Attribute R and R Analysis**

- Gage R and R Analysis and Attribute R and R Analysis
- Measurement System Analysis
- Gage Repeatability and Reproducibility Analysis Method 3
- Gage Repeatability and Reproducibility Analysis Method Demo
- Attribute Repeatability and Reproducibility Analysis Method
- Attribute Repeatability and Reproducibility Analysis Method Demo

### **Lesson 06 - Case Study on Lean SS Black Belt**

- Case Study on Lean SS Black Belt
- Generate CCA in Minitab
- Interpret Correlation Coefficient Analysis
- Interpreting Correlation Coefficient Analysis Demo
- Conclusion
- Use of Contour Graph
- Create Contour Graph Demo
- Hypothesis Test for Normally Distributed Data
- 2 Sample t Test Demo
- Hypothesis 1 Sample t-Test
- 1 Sample t Test Demo
- Hypothesis-Paired t-Test
- Paired t Test Demo

## **Lesson 07 - Regression Analysis in Minitab**

- Regression Analysis in Minitab
- Simple Linear Regression
- Simple Linear Regression in Minitab Demo
- Conclusion
- Multiple Regression
- Multiple Regression in Minitab Demo
- Conclusion

## **Lesson 08 - Hypothesis Tests for Non-Normally Distributed Data**

- Hypothesis Tests for Non-Normally Distributed Data
- Non Parametric Tests
- 1 Sample Sign test in Minitab Demo
- Hypothesis-2 Sample Mann Whitney U Test
- 2 Sample Mann Whitney U Test in Minitab Demo
- Hypothesis-Kruskal Wallis Test
- Kruskal Wallis Test in Minitab Demo

## **Lesson 09 - Analysis of Variance**

- Analysis of Variance
- Analysis of Variance
- Test of Normality Demo
- Analyze the next assumption
- Test of Equal Variances Demo
- One-way ANOVA test Demo
- Conclusion



- Main Effects Plot
- Main Effects Plot Demo
- Interaction Plot
- Interaction Plot Demo
- Conclusion in Data Analysis
- Lesson 10 - Chi Square Test for Association
- Chi Square Test for Association
- Chi-Square Testing
- Chi Square Test of Independence using Minitab Demo

## **Lesson 11 - Design of Experiments**

- Design of Experiments
- Design of Experiment
- Factorial Design in Minitab Demo
- Conclusion

## **Lesson 12 - Common Pitfalls while Analyzing Data**

- Common Pitfalls while Analyzing Data
- Common Pitfalls in Data Analysis

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