

AIGPE

ADVANCED INNOVATION GROUP PRO EXCELLENCE

Drive Success To Excellence

Minitab

Specialist Program

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Minitab Specialist Program

Certification from AIGPE has upheld the highest standards in the field of quality excellence in many industries. It serves as a driving force to propel you towards successful career and offers excellent resources to improve organization's bottom line through your mastery of quality skills. By becoming certified as a Minitab Specialist from AIGPE, you seize the opportunity of contributing to quality and confirm the positive impact it will have on your organization.

As a Minitab Specialist, you become an expert at data analysis; you understands data, are able to slice and dice the data and solve quality problems by inferring from the analysis. You enable leaders to take key organizational decisions basis the inferences provided by your analysis. Becoming a certified Minitab Specialist from AIGPE is a key milestone to your profile. You uplift your resume and also become the most demanding person in today's market place.

Three criteria's to complete Minitab Specialist Program at AIGPE:

Minitab Specialist Training

You are expected to attend all the facilitator led online sessions. Since, most of our candidates are professionals and may have professional compulsions; our program is designed to cater to your busy schedule effectively.

Minitab Specialist Exam

At the end of training, you are required to pass a written examination that consists of Multiple Choice Questions measuring comprehension of the study material. The Minitab Specialist Certification Program exam is a two and half hour, 150 multiple-choice examination. It's offered in English.

Minitab Trainee Capability Enhancers*

At the end of each module, you receive Minitab Trainee Capability Enhancers. These Trainee Capability Enhancers are specially designed to improve your conceptual understanding of each topic. You are required to have 100% of all the Trainee Capability Enhancers submitted, reviewed and passed before commencing the exam.

*These are unique practices followed by AIGPE to make our students world class executives by helping them achieve hands-on experience and expertise.



Training Methodology

The Minitab Specialist Certification Program is an online facilitator led module. A training session link is made available to all participants on www.aigproexcellence.com before commencement of each batch. Participants need to click on the link and arrive at the virtual classroom training. The participants are required to have:

- Gmail ID
- Laptop/Desktop
- Headphone/Speakers
- Access to Fast Speed Internet

Training Curriculum

The Beginning

Getting the Results

Becoming a Specialist

Minitab Module 1: The Beginning

The Beginning phase focus on introducing you to Minitab, its evolution and future, cleansing the data and preliminary calculations.

The content of “The Beginning” phase is described below:

Overview of Minitab

Availability of different softwares for Data Analysis

Evolution of Minitab

The Role of Minitab for Big Data

Cleansing and preparing data for Analysis using Data menu:

- Stack and Unstack Columns
- Transpose Columns
- Sort and Rank Columns
- Change Data Type from:
 - Numeric to Text
 - Text to Numeric
 - Date/Time to Text
 - Date/Time to Numeric
 - Numeric to Date/Time
 - Text to Date/Time
- Extract from Date/Time
 - To Numeric
 - To Text
- Concatenate



Perform preliminary calculations using Calc Menu:

- Column Statistics
- Row Statistics
- Make Patterned Data
- Generate Random Data

Minitab Module 2: Getting the Results

“Getting the Results” phase focuses on getting results by performing analysis. It includes Exploratory Data Analysis, Hypothesis Testing, Basic Statistics and a multitude of statistical tests.

Below is the detailed content of “Getting the Results” phase:

Perform Exploratory Data Analysis (EDA)

- Understand Data Types – Discrete and Continuous Data
- Understand Normal Probability Distribution
- Check Stability of Data
- Check Normality of Data
- Understand Box-Cox Transformation
- Display Descriptive Statistics
- Create Graphical Summary
- Stem and Leaf Plot
- Box Plot
- Scatter Plot
- Matrix Plot
- Marginal Plot
- Histogram
- Dotplot
- Probability Plot
- Interval Plot
- Bar Chart
- Pie Chart
- Time Series Plot

Understand and Perform Hypothesis Testing

- Understand steps involved in Hypothesis testing
- Hypothesis testing errors
- Understanding the p-value
- Understanding the different types of hypothesis tests – Mean, Median, Variance



Perform Basic Statistics

- 1-Sample Z test
- 1-Sample t test
- 2-Sample t test
- Paired t test
- 1 Proportion test
- 2 Proportion test
- 2 Variance test

Perform Correlation and Regression

- Correlation Analysis
- Regression Analysis
- Stepwise Regression
- Best Subsets Regression
- Fitted Line Plot

Perform Analysis of Variance (ANOVA)

- One-Way ANOVA
- One-Way ANOVA (Unstacked)
- Two-Way ANOVA
- Analysis of Means (ANOM)
- Test of Equal Variances

Use of Control Charts

- I-MR Chart
- X-Bar R Chart
- X-Bar S Chart
- P chart
- U chart
- NP chart
- C chart

Chi-Square Test (Tables in Worksheet)

Use of Quality Tools

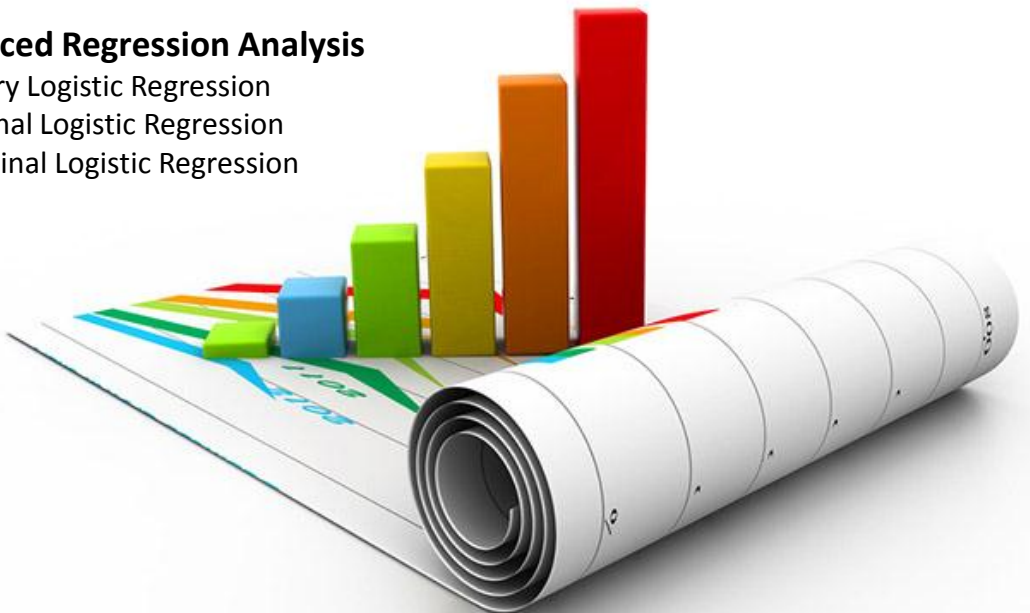
- Pareto Chart
- Cause and Effect Diagram
- Individual Distribution Identification

Minitab Module 3: Becoming a Specialist

“Becoming a Specialist” phase focuses on Advanced Statistical Training. The journey of this phase takes you from being an “able” statistical literate to a highly “capable” statistical and analytical expert. Below are the detailed contents of “Becoming a Specialist” phase:

Advanced Regression Analysis

- Binary Logistic Regression
- Ordinal Logistic Regression
- Nominal Logistic Regression



Advanced ANOVA

- Balanced ANOVA
- General Linear Model (GLM)
- Nominal Logistic Regression

Design of Experiments

- Create Factorial Design
- Analyze Factorial Design
- Factorial Plots

Advanced Control Charts

- EWMA
- CUSUM

Advanced Quality Tools

- Normal Capability Analysis
- Between/Within Capability Analysis
- Non-normal Capability Analysis

Gage Study

- Gage R&R (Crossed)
- Gage R&R (Nested)
- Attribute Agreement Analysis (Kappa Statistics)

Time Series Analysis

- Time Series Plot
- Trend Analysis
- Decomposition
- ARIMA

Non-Parametrics

- 1-Sample Sign test
- 1-Sample Wilcoxon test
- Mann-Whitney test
- Kruskal-Wallis test
- Mood's Median test
- Friedman test



Enhance Your Career

with Advanced Innovation Group Pro Excellence Minitab Specialist Certification Program today!!!

You can also opt for additional certifications. AIGPE also provides training and certification programs for:

Certified Six Sigma Black Belt

Certified Six Sigma Green Belt

Certified Six Sigma Yellow Belt

Lean Specialist

Minitab Beginner

Short Term Programs (basis needs of the organization/individual):

- Statistical Process Control (SPC) Specialist
- Failure Mode and Effect Analysis (FMEA) Specialist
- Process Mapping and Value Stream Mapping (VSM)

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