



Business Statistics for SAS Enterprise Guide Course Outline

Audience:

This course is for statisticians, data analysts and scientists wishing to explore and analyse data with Enterprise Guide. The course is appropriate for those making use of statistics in all industries.

Prerequisites:

Attendees should have an understanding of statistical concepts and be trained to at least fundamental level in Enterprise Guide. Whilst this course provides a brief overview of each methodology discussed, it does not intend to teach statistical methods. This course demonstrates how to utilise Enterprise Guide to apply statistical methodologies and how to interpret the output generated by Enterprise Guide tasks. SAS Programming is not part of this course

Objectives:

After the course, attendees will be able to apply various statistical methods for both continuous and discrete data, to interpret the output from Enterprise Guide tasks and to store information via the output delivery system for subsequent reporting. The course will use statistical and graphical tasks to cover both descriptive and graphical data exploration techniques, hypothesis testing, sampling methods and the comparison of two groups of data.

Duration:

1 Day.

COURSE TOPICS

ES1 Introduction

- Course Objectives
- Types of Data
- Testing Hypotheses and p-values
- Enterprise Guide Tasks
- Connecting to the Course Data
- Workshop Session

ES2 Exploring Continuous Data

- Statistical Measures
- Normal Distribution
- Non-Normal Data
- Summarising Variability
- Outputting Data
- Exploring Data Graphically
- Workshop Session

ES3 Comparing Two or More Groups of Data

- Student's T-Test
- Non-Parametric Hypothesis Tests
- Analysis of Variance (ANOVA)
- Non-Parametric Analysis of Variance
- Workshop Session

ES4 Correlations Between Data

- Understanding Correlation
- Calculating Correlation Coefficients
- Workshop Session

ES5 Linear Regression

- Simple Linear Regression
- Multiple Linear Regression
- Workshop Session

ES6 Discrete Data Analysis

- Frequency Distribution Tables
- Binomial Proportions
- Two-Way Frequency Tables
- Chi-Squared Tests
- Logistic Regression
- Workshop Session

ES7 Selecting Samples of Data

- Sampling Overview
- Sampling with Replacement
- Sampling without Replacement
- Stratified Random Sampling
- Equal Stratified Samples
- Workshop Session

