



Business Statistics for SAS® - Part 1 Course Outline

Audience:

This course is for statisticians, data analysts and scientists wishing to explore and analyse data with the SAS System. 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 SAS. 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 SAS to apply statistical methodologies and how to interpret the output generated by SAS procedures.

Objectives:

This course is our Essential Introduction to the SAS System. The course covers all you need to know to get started with SAS quickly and easily. After the course, attendees will be able to use SAS software to read their data, access, manage and manipulate their data, solve problems, save programs and datasets, use conditional logic, combine files, produce tables and listings of data, and use data analysis techniques.

Duration:

1 Day.

COURSE TOPICS

BS1 Introduction

- Course Objectives
- Types of Data
- Hypotheses Testing
- SAS Procedures
- Workshop Session

BS2 Exploring Continuous Data

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

BS3 Comparing Two Groups of Data

- Box-and-Whisker Plots
- Student's t-Test
- Non-Parametric Hypothesis Tests
- Workshop Session

BS4 Exploring Discrete Data

- Frequency Distribution tables
- Saving Output
- Workshop Session

BS5 Selecting Samples of Data

- Sampling Overview
- Sampling with and without Replacement
- Systematic Random Sampling
- Stratified Random Sampling
- Sequential Random Sampling
- Probability Proportional to Size (PPS) Sampling
- Workshop Session

BS6 Statistics in the Data Step (Optional)

- Descriptive Statistics in the Data Step
- Rounding
- Financial Functions
- Random Number Generating

