

INTRODUCTION TO STATISTICAL ANALYSIS USING SPSS STATISTICS

SPSS

■ Platform: Windows ■ Duration: 2 days ■ Level: Intermediate

TARGET AUDIENCE

This course targets those with little or no statistical background. The *Introduction to Statistics* course is also an appropriate refresher for those whose main statistical experience was gained many years ago

PREREQUISITES

Keyboard and mouse skills. Experience of working in the Windows environment and a general understanding of key Windows features. Familiarity with SPSS Base including, variable definition, entering and editing data, opening and saving data files and creating/manipulating and saving output. The aforementioned SPSS techniques must have been used in SPSS v9 or later. **No prior knowledge of Statistics is required.**

OVERVIEW

The course logically guides attendees through an introduction to the key elements of many statistical procedures. This includes a broad range of techniques for exploring and summarising data, as well as investigating and testing underlying relationships.

You will gain an understanding of when and why to use these various techniques as well as how to apply them with confidence, and interpret their output, using SPSS. The course provides a solid grounding in statistical analysis and for many people is **possibly the only statistics course that you will ever need.** However for those who wish to progress into more advanced and powerful statistical procedures, this course provides you with the knowledge, ability and confidence required to attend higher-level statistical courses.

OBJECTIVES

By the end of the course you will have learned to:

- Identify different types of data;
- Choose the appropriate techniques for exploring, summarising and testing the data;
- Interpret your output and draw appropriate conclusions about the data.

COURSE CONTENT

Following an overview of the main features of SPSS and an introduction to essential terminology, you will proceed logically through the following topics:

- Introduction to statistical analysis
- Data checking
- Describing categorical data
- Exploratory data analysis: scale data
- Probability and inferential statistics
- Comparing categorical variables
- Mean differences between group: T-Tests
- Bivariate plots and correlations: scale variables
- Introduction to regression
- Appendix A: Mean differences between group: one factor ANOVA
- Appendix B: Introduction to multiple regression