

FAST TRACK: ADVANCED TECHNIQUES - ANOVA

SPSS

■ Platform: Windows ■ Duration: 1 day ■ Intermediate

TARGET AUDIENCE

SPSS users who want to improve their understanding of analysis of variance techniques. Those who want to know how to set up analysis of variance in SPSS as well as how to interpret the results.

PREREQUISITES

Familiarity with SPSS, including variable definition, opening and saving data files, generation of basic exploratory statistics. The understanding of Central Tendency, Dispersion and Hypothesis Testing (including the t-test) is an essential prerequisite.

OVERVIEW

ANOVA (analysis of variance) is performed to determine whether there are differences in the means between groups, or across different conditions. This 1 day fast track course will enable you to learn the fundamentals of ANOVA so that you can apply the technique to your data.

The course focuses on the different Analysis of Variance techniques which allow you to test whether the means of several populations are the same. After discussing the basic assumptions for each technique you will check the assumptions, run the analysis and draw conclusions from the data.

COURSE CONTENT

Following an introduction to the principles of ANOVA Modelling you will proceed logically through the following topics:

- Introduction to ANOVA
- Examining data and testing assumptions
- One-Factor ANOVA
- Multi-Way univariate ANOVA
- Within-subjects designs – repeated measures
- Appendix a: Between and within-subjects ANOVA
- Appendix b: Analysis of covariance

N.B. PASW Statistics Base and the PASW Advanced Statistics add on module will be used during this course