



Statistical Analysis Using IBM SPSS Statistics (V26)

Duration: 2 Days Course Code: 0G51BG Delivery Method: Virtual Learning

Overview:

This course provides an application-oriented introduction to the statistical component of IBM SPSS Statistics. Students will review several statistical techniques and discuss situations in which they would use each technique, how to set up the analysis, and how to interpret the results. This includes a broad range of techniques for exploring and summarizing data, as well as investigating and testing relationships. Students will gain an understanding of when and why to use these various techniques and how to apply them with confidence, interpret their output, and graphically display the results.

Virtueel en Klassikaal™

Virtueel en Klassikaal™ is een eenvoudig leerconcept en biedt een flexibele oplossing voor het volgen van een klassikale training. Met Virtueel en Klassikaal™ kunt u zelf beslissen of u een klassikale training virtueel (vanuit huis of kantoor)of fysiek op locatie wilt volgen. De keuze is aan u! Cursisten die virtueel deelnemen aan de training ontvangen voor aanvang van de training alle benodigde informatie om de training te kunnen volgen.

Target Audience:

- IBM SPS Statistics users who want to familiarize themselves with the statistical capabilities of IBM SPSS Statistics Base.
- Anyone who wants to refresh their knowledge and statistical experience.

Objectives:

- Introduction to statistical analysis
- Describing individual variables
- Testing hypotheses
- • Testing hypotheses on individual variables
- Testing on the relationship between categorical variables
- Testing on the difference between two group means

- • Testing on differences between more than two group means
- Testing on the relationship between scale variables
- Predicting a scale variable: Regression
- Introduction to Bayesian statistics
- Overview of multivariate procedures

Prerequisites:

Experience with IBM SPSS Statistics (version 18 or later), or

Completion of the IBM SPSS Statistics Essentials course

Content:

Introduction to statistical analysis	Chart the relationship	Describe the relationship
Identify the steps in the research process	Describe the relationship	Test the hypothesis of independence
Identify measurement levels	Test the hypothesis of independence	Assumptions
Describing individual variables	Assumptions	Treatment of missing values
Chart individual variables	Identify differences between the groups	Predicting a scale variable: Regression
Summarize individual variables	Measure the strength of the association	Explain linear regression
Identify the normal distribution	Testing on the difference between two group means	Identify unstandardized and standardized coefficients
Identify standardized scores	Chart the relationship	• Assess the fit
Testing hypotheses	Describe the relationship	Examine residuals
Principles of statistical testing	Test the hypothesis of two equal group means	Include 0-1 independent variables
One-sided versus two-sided testing	Assumptions	Include categorical independent variables
Type I, type II errors and power		Introduction to Bayesian statistics
Testing hypotheses on individual variables	Testing on differences between more than two group means	Bayesian statistics and classical test theory
• Identify population parameters and sample statistics	Chart the relationship	The Bayesian approach
• Examine the distribution of the sample mean	Describe the relationship	Evaluate a null hypothesis
Test a hypothesis on the population mean	Test the hypothesis of all group means being equal	Overview of Bayesian procedures in IBM SPSS Statistics
Construct confidence intervals	Assumptions	Overview of multivariate procedures
Tests on a single variable	Identify differences between the group means	Overview of supervised models
Testing on the relationship between categorical variables	Testing on the relationship between scale variables	Overview of models to create natural groupings
	Chart the relationship	

Further Information:

For More information, or to book your course, please call us on 030 - 60 89 444

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