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Register

IBM SPSS Training

3 days (21 hours)

Overview

Our IBM SPSS training will guide you through the use of one of the most powerful statistical tools on the market.

During our training, you will discover how to fully leverage the features of IBM SPSS to transform your data into actionable analyses and relevant insights.

Learn how to analyze, visualize, and automate your data for reliable and professional results.

By the end of our training course, you will be able to use IBM SPSS to prepare, analyze, visualize, and present your data in a professional and efficient manner.

Objectives

- Prepare and clean data sets for effective statistics
- Perform advanced analyses, such as regression, correlation, and variance analyses
- Perform descriptive analyses, statistical tests, and visualizations
- Automate recurring tasks using scripts and macros
- Export and present your results in a clear and professional manner

Target audience

- Data Analyst
- Academic researchers
- Data scientists

Prerequisites

- Knowledge of statistics (hypothesis testing, variables, etc.)
- Familiarity with office software, particularly Excel

IBM SPSS program

Introduction to IBM SPSS

- General overview of IBM SPSS and its applications
- Exploring the interface: menu, data windows, and results.
- Importing and exporting data
- Types of variables and data structuring in SPSS

Data preparation and management

- Data cleaning: managing missing values and detecting duplicates
- Transforming variables: recoding, creating calculated variables
- **Filtering, sorting, and grouping observations**
- Preparing data for specific analyses

Descriptive analyses and data visualization

- Calculation of descriptive statistics (means, standard deviations, frequencies)
- Creation of pivot tables
- Data visualization: histograms, box plots, pie charts, etc.
- Summary and presentation of descriptive results

Statistical analyses and hypothesis testing

- Introduction to hypothesis testing and interpretation of p-values
- t-tests (independent and paired) and ANOVA to compare groups
- Correlations between continuous and categorical variables
- Simple and multiple linear regressions: modeling and interpretation

Communication and automation of results

- Exporting analyses and graphs to Word, Excel, or PDF
- Formatting tables and graphs for a non-technical audience
- Writing professional reports
- Tips for effectively presenting your findings

Companies concerned

This training is aimed at both individuals and companies, large or small, wishing to train their teams in new advanced IT technology or to acquire specific professional knowledge or modern methods.

Placement at the start of training

The placement test at the start of the training course complies with Qualiopi quality criteria. Once they have finalized their registration, learners receive a self-assessment questionnaire that allows us to assess their estimated level of proficiency in different types of technologies, as well as their expectations and personal objectives for the upcoming training course, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could be problematic for the monitoring and smooth running of the training session.

Teaching methods

Practical training: 60% practical, 40% theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the trainer, supported by examples and reflection sessions, and group work.

Validation

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been correctly acquired.

Certification

A certificate will be issued to each trainee who has completed the entire training course.