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# IBM SPSS training

3 days (21 hours)

## Presentation

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

During our training course, you'll discover how to take full advantage of IBM SPSS features to transform your data into actionable analysis and relevant insights.

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

By the end of our course, you'll be able to use IBM SPSS to prepare, analyze, visualize and present your data professionally and efficiently.

## Objectives

- Prepare and clean data sets for efficient statistics
- Perform advanced analyses, such as regression, correlation and variance analyses
- Perform descriptive analyses, statistical tests and visualizations
- Automate recurring tasks with scripts and macros
- Export and present your results clearly and professionally

## Target audience

- Data Analyst
- Academic researchers
- Data Scientists

## Prerequisites

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

## IBM SPSS program

### Introduction to IBM SPSS

- Overview of IBM SPSS and its applications
- Discover the interface: menu, data windows and results.
- Data import and export
- Variable types and data structuring in SPSS

### Data preparation and management

- Data cleansing: management of missing values and detection of duplicates
- Variable transformation: recoding, creation of calculated variables
- **Filtering, sorting and grouping observations**
- Preparing data for specific analyses

### Descriptive analysis and data visualization

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

### Statistical analysis and hypothesis testing

- Introduction to hypothesis testing and interpretation of p-values
- t-test (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

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

## Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

## Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

## Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

## Organization

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

## Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

## Sanction

A certificate will be issued to each trainee who completes the course.