

# STATISTICAL ANALYSIS WITH IBM SPSS STATISTICS

*Duration: 3 days*

## Introduction

This course introduces you to the power and functionality of IBM SPSS Statistics as a data analysis tool and covers standard exploratory statistical analysis of data. The course will cover:

- ▲ Accessing data entry and import from other media, such as Excel
- ▲ Manipulating data to create new data fields
- ▲ Presenting data. Tabular and graphical output for analysis and reporting
- ▲ Exploratory data analysis
- ▲ Assessing whether significant differences exist between groups
- ▲ Assessing whether significant associations/correlations exist between data fields
- ▲ Basic trend analysis

On completing this course, you should be confident in leveraging the power of IBM SPSS Statistics. You will be able to access data and create bespoke, high quality reports and output for monitoring data and enabling decision support. This includes the ability to draw conclusions from the data based on powerful statistical analysis.

## Target Audience

This course is designed for those wishing to learn how to enter, modify, analyse and present data using IBM SPSS Statistics.

## Prerequisites

Attendees are requested to be computer literate. Experience of working in the Windows environment and an understanding of the key Windows features is assumed.

“Course was excellently presented with a clear overview of research and statistics principles and the IBP SPSS Statistics software package. I found it challenging but very informative and a useful introduction to IBM SPSS Statistics”

- Mr. Paul Sheehan,  
Cork Simon Community

## Course Content

### *Day 1: Introduction to the Course.*

- ▲ Introduction to Statistical Analysis & Introduction to IBM SPSS Statistics.
- ▲ Entering and Editing Data
- ▲ Reading Data & Manipulating Data Sources
- ▲ Summarizing Individual Variables

### *Day 2: Variable Relationships, Visualizations & EDA.*

- ▲ Recode & Compute
- ▲ Describing Multiple Variable Relationships
- ▲ Select Cases & Charts
- ▲ Exploratory Data Analysis: Scale Data

### *Day 3: Probabilities, T-Tests, Correlations, Regression.*

- ▲ Probability and Inferential Statistics
- ▲ Comparing Categorical Variables
- ▲ T-Tests & Bivariate Plots and Correlations
- ▲ Introduction to Regression

## Course Delivery

- ▲ Our public training courses run in our facilities in the UK and Ireland (Dublin 1).
- ▲ Other dates and locations (worldwide) can be arranged for private teams or group sessions. Please [contact us](#) for more details.
- ▲ All courses are classroom based with a maximum of 6 attendees.
- ▲ The courses take place from 9:30am to 5pm on each day, with lunch from 1:00pm-2:00pm and coffee breaks.