

Basic Statistics Using SAS/INSIGHT® Software

Course Length: 2 days **CEUs** 1.2

Format: Hands on Training

AUDIENCE

This course covers all aspects of SAS/INSIGHT Software, a self-contained package that allows for data analysis, sophisticated graphing in two or more dimensions and intense statistical reporting. It is completely menu-driven. Students will learn to take data, manipulate it in a graphical environment to understand relationships in the data and be able to identify items such as outliers quickly. The course workshops will give students an opportunity to learn how to organize, describe, analyze and interpret data.

BENEFITS

Attendees will learn to:

- Access all forms of data
- Create interactive, graphical analysis
- Filter, sort and transform data
- Calculate new variables and transform existing ones
- Create one and two way analysis
- Create various linear regression models
- Perform Fit tests

PREREQUISITES

Some previous knowledge of SAS® Software in an interactive environment, along with a basic knowledge of statistics such as hypothesis testing, analysis of variance, p-values, t-tests and regression analysis.

COURSE TOPICS

Basic Statistics

- Simple statistic concepts
- Distributions of data
- Scales of Measurements

Data Exploration

- Sampling
- Creating sample statistics
- Using graphical displays of data
- Bar, Line and 3D Rotating Graphs
- Interpretation
- Restructuring Data

Data Analysis

- Multiple regression
- One way analysis of variance
- Correlation statistics
- P-Values
- Test of hypotheses
- Linear regressions