Graphing in SAS® Software

**Course Length:** 2 days  **CEUs** 1.2  
**Format:** Hands on Training

**AUDIENCE**
This course teaches the graphing techniques available in SAS/Graph Software. SAS® is not only designed for analysis via tables and reports. We learn about its capabilities for plotting, charting, creating custom and three-dimensional graphs. Students will learn how to take information analyzed in SAS, graph it and export the graphs to other software such as a word processor. Students learn that in one program execution, SAS can produce thousands of graphs.

**BENEFITS**
Students will be able to:
- Create Plots and Charts
- Use the annotate facility for graph enhancement
- Use symbols for interpolation techniques
- Create graphs and reports on the same display
- Create web published output
- Print graphs
- Create Choropleth, block, cylinder, surface, 2D and 3D charts and maps
- Create color graphs including bars and pies

**PREREQUISITES**
Programming I: SAS Essentials course or equivalent understanding.

**COURSE TOPICS**

**Overview**
- Types of graphs available in SAS/Graph Software
- Choosing a graph

**Creating Slides with Text**
- Creating posters and slides
- Using titles, footnotes and notes
- Changing fonts, height and colors

**Creating Plots**
- Setting up your data
- Plotting data
- Using interpolations
- Creating a second vertical axis
- Customizing horizontal and vertical axis information
- Changing plotted line types and colors
Graphing in SAS® Software

Creating Bar and Pie Charts
  • Building a bar chart
  • Building a pie chart
  • Grouping and subgrouping data
  • Specifying statistics to graph
  • Changing colors and patterns
  • Setting up labels and legends

Graphing Using Maps in 3 Dimensions
  • Creating Block Charts
  • Creating Maps
  • Creating Choropleth Charts
  • Setting up map data sets with coordinates
  • Matching data files to map data sets

Using The Output Delivery System For Graphing
  • What is ODS
  • Specifying the style of output
  • Creating interactive graphs
  • Web publishing graphs
  • Printing graphs
  • Rotating Graphs
  • Using the Active X capabilities

Annotating Graphs
  • How to use annotation
  • Annotation data sets and values
  • Labeling graphs
  • Annotating images

Graphing Utilities
  • Using and storing templates
  • Displaying reports and graphs on the same display
  • Understanding SAS catalogs
  • Moving graphs between catalogs
  • Replaying graphs