



## Using SAS/GRAPH® Software Statistical Graphics Procedures Course Outline

### Audience:

All users of the SAS System involved in the reporting and presentation of clinical trial data and who wish to present graphics to publication quality, using SAS 9.2.

### Prerequisites:

This course is intended for those who have previously attended SAS Fundamentals. Additionally we recommend that attendees have three months of regular SAS programming experience to gain the most benefit from this course.

### Objectives:

After two days of instructor lead tuition attendees will be able to:

- Produce high quality graphical outputs with the following SAS/GRAPH software procedures:
  - SGPLOT
  - SGSCATTER
  - SGPANEL
  - SGRENDER;
- Use ODS styles elements to customise the appearance of graphics;
- Understand how to store graphics in various ODS destinations and file formats;
- Work with statements in the Graph Template Language to customise the layout of graphics;
- Understand the integration of statistical graphics generated from both Base SAS software and SAS/STAT® software procedures;
- Be able to work with the ODS Graphics Editor.

### Duration:

2 Day.

## COURSE TOPICS

### SG1 Introduction

- Objectives
- Background
- Concepts and Terminology
- What is SAS/GRAPH software?
- Creating Graphs

### SG2 Producing Plots with the SGPLOT Procedure

- The SGPLOT Procedure
- Basic Plots
- Fit and Confidence Plots
- Distribution Plots
- Categorisation Plots
- Ancillary statements
- Standard SAS statements
- Setting attributes
- Options to the Proc SGPLOT statement

### SG3 Creating Panelled Plots with the SGSCATTER and SGPANEL Procedures

- Introduction
- Proc SGPANEL
- Proc SGSCATTER – COMPARE statement
- Proc SGSCATTER – PLOT statement
- Proc SGSCATTER – MATRIX statementTable Structures

### SG4 The Graphics Template Language and the SGRENDER Procedures

- Introduction
- Proc SGRENDER
- Customising templates
- Template stores
- Introduction to GTL

### SG5 Graphics and the Output Delivery System

- Exporting Graphics with the Output Delivery System
- HTML Techniques
- Graph size and resolution
- ODS Styles
- Customising Styles
- Working with ODS and Proc DOCUMENT (Optional)

### SG6 Using the ODS Graphics Editor

- Basics
- Editing graphs
- Annotating graphs

### SG7 Statistical Procedures and ODS GRAPHICS

- Introduction
- Proc UNIVARIATE
- Proc CORR
- Proc REG
- Proc LIFETEST

### SG8 Comparison of Traditional SAS Graphics

- General features
- Types of plot available
- Annotation facilities

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