



# SAS/GRAPH® 1: Essentials

## Duration

3 days

## Delivery

Classroom

## Course code

GRP1

## Online registration

[www.sas.com/uk/education/courses/grp1.html](http://www.sas.com/uk/education/courses/grp1.html)

This course teaches you how to produce high quality presentation graphics using SAS/GRAPH® software.

### Learn how to;

- design graphs that describe their data in the most appropriate fashion
- customise default graph elements such as axes and legends
- apply annotations that supplement the features available with SAS/GRAPH procedures
- deliver graphs in multiple formats, such as static image files and client-generated images.

### Who should attend:

SAS users who must generate graphs using SAS program code in batch or noninteractive execution environments such as SAS® Stored Processes, or need to produce a large quantity of graphs with minimal user interaction.

### Prerequisites:

Before attending this course, you should have completed the *SAS Programming 1: Essentials* course or have equivalent programming experience.

### Course contents:

#### Course Logistics and Overview

- course logistics
- graphical reporting overview

#### Graphical Reporting with SAS/GRAPH®

- graph types produced by SAS/GRAPH
- SAS/GRAPH environment
- SAS/GRAPH program structure
- SAS/GRAPH and the Output Delivery System.

### Producing Scatter and Line Plots

- creating scatter plots
- creating line plots
- creating plots containing multiple lines
- creating other types of plots with individual data points
- creating other types of plots with grouped data (self-study).

### Producing Bar Charts

- creating vertical and horizontal bar charts
- creating grouped and subgrouped bar charts
- creating block charts (self-study)
- creating bar-line charts
- creating area bar charts.

### Producing Pie, Donut, Star and Other Charts

- creating pie charts
- creating donut charts (self-study)
- creating star charts (self study)
- creating radar charts
- creating tile charts
- creating key performance indicator charts.

### Customising Axes and Legends

- customising plot and chart axes
- customising axes with AXIS statements
- customising legends.

## UK CONTACT INFORMATION

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### Customising the Appearance of SAS/GRAPH® Output

- common attributes of graphics elements
- customising common graphics elements
- customising plot appearance
- customising chart appearance
- customising axis appearance.

### Annotating Graphs

- creating basic annotations
- creating data-dependent annotations.

### Generating Graphs for Use in Other Applications

- creating image files
- creating client-rendered graphs
- creating clickable graphs for the Web using ODS.

### Managing and Replaying SAS/GRAPH® Output (Self-Study)

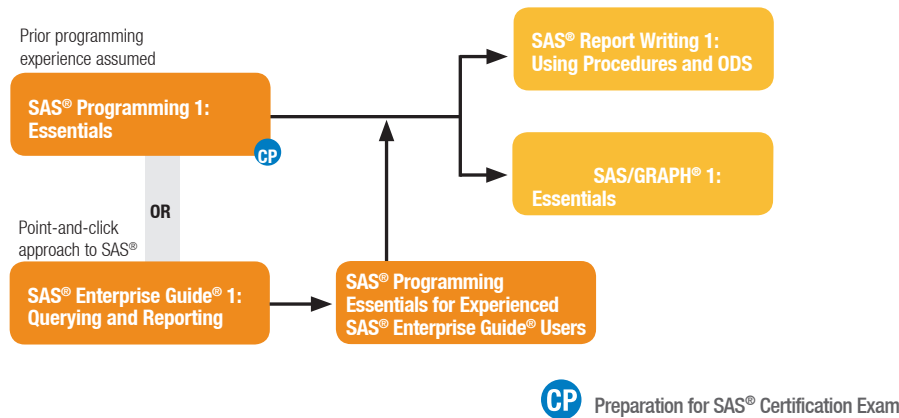
- storing and naming graphics output
- using the GREPLAY procedure in line mode.

### Software addressed:

This course addresses the following software product:

- SAS/GRAPH.

## Training Path for Report Writers



THE  
POWER  
TO KNOW.

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