

SAS® Certified Base Programmer Fast Track

Duration
5 days

Delivery
Classroom

Course code
CERT

Online registration
www.sas.com/uk/education/courses/cert.html

UK CONTACT INFORMATION

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THE POWER TO KNOW®

This course teaches the fundamentals of SAS® – data access, manipulation, analysis and reporting – and has been designed to prepare learners for the SAS® Certified Base Programmer exam. The SAS Certified Base Programmer is responsible for analysing and presenting data to solve business needs.

Learn how to:

- understand file structure and write system commands to create and access files
- understand programming logic concepts (IF/THEN logic)
- understand the compilation and execution process of the DATA step
- use different kinds of input to create SAS data sets from external files
- use SAS software to access SAS data libraries
- create and use SAS date values
- read, concatenate, merge, match-merge and interleave SAS data sets
- use the data set options DROP=, KEEP= and RENAME=
- create multiple output data sets
- use array processing and DO loops to process data iteratively
- use SAS functions to perform data manipulation and transformations.

Who should attend?

Anyone wanting to take the SAS Certified Base Programmer Exam.

Prerequisites

Before attending this course, you should have:

- an understanding of your operating system
- some experience of programming in other languages or packages would be advantageous.

Course contents:

Introduction

Getting Started with SAS®

- Introduction to SAS Programs
- Mastering Fundamental Programming Concepts.

Accessing Existing SAS® Data Sets

- Introduction to SAS Data Sets
- Accessing Existing SAS Data Sets.

Reading Raw Data Files

- Introduction
- Reading Fixed-width Files
- DATA Step Processing
- Reading Delimited Raw Data Files
- Testing a DATA Step (self-study).

Reading SAS® Data Sets and Creating New Variables

- Reading SAS Data Sets
- Creating New Variables.

Controlling the Output of Variables and Observations

- Controlling the Output of Variables
- Controlling the Output of Observations.

Conditional Processing Using IF… THEN…ELSE Logic

Sorting SAS® Data Sets

Combining SAS® Data Sets

- Introduction
- Concatenating SAS Data Sets
- Interleaving SAS Data Sets
- Match-Merging SAS Data Sets
- Eliminating Non-Matches and Identifying Data Set Contributors.

See over for Training Path

Recoding Data Values

- Introduction
- Applying Formats
- Creating User-Defined Formats.

Creating Frequency Reports

Generating Summary Statistics

Exporting Data using the Output Delivery System (ODS)

- Overview of the Output Delivery System
- Generating HTML Output.

Titles, Footnotes and SAS® System Options

Generating Reports using the Print Procedure

- Overview of the PRINT Procedure
- Proc PRINT Additional Features (self-study).

Controlling Input and Output

- Outputting Multiple Observations
- Writing to Multiple SAS Data Sets
- Selecting Variables and Observations
- Writing to an External File.

Summarising Data

- Creating an Accumulating Total Variable
- Accumulating Totals for a Group of Data.

Reading and Writing Different Types of Data

- Controlling When a Record Loads
- Reading Hierarchical Raw Data Files.

Proc REPORT

- Proc REPORT Overview
- Additional Features of Proc REPORT (self-study).

Processing Data Iteratively

- DO Loop Processing
- SAS Array Processing
- Using SAS Arrays.

Data Transformations

- Introduction
- Manipulating Character Values
- Manipulating Numeric Values
- • Manipulating Numeric Values Based on Dates
- Converting Variable Types.

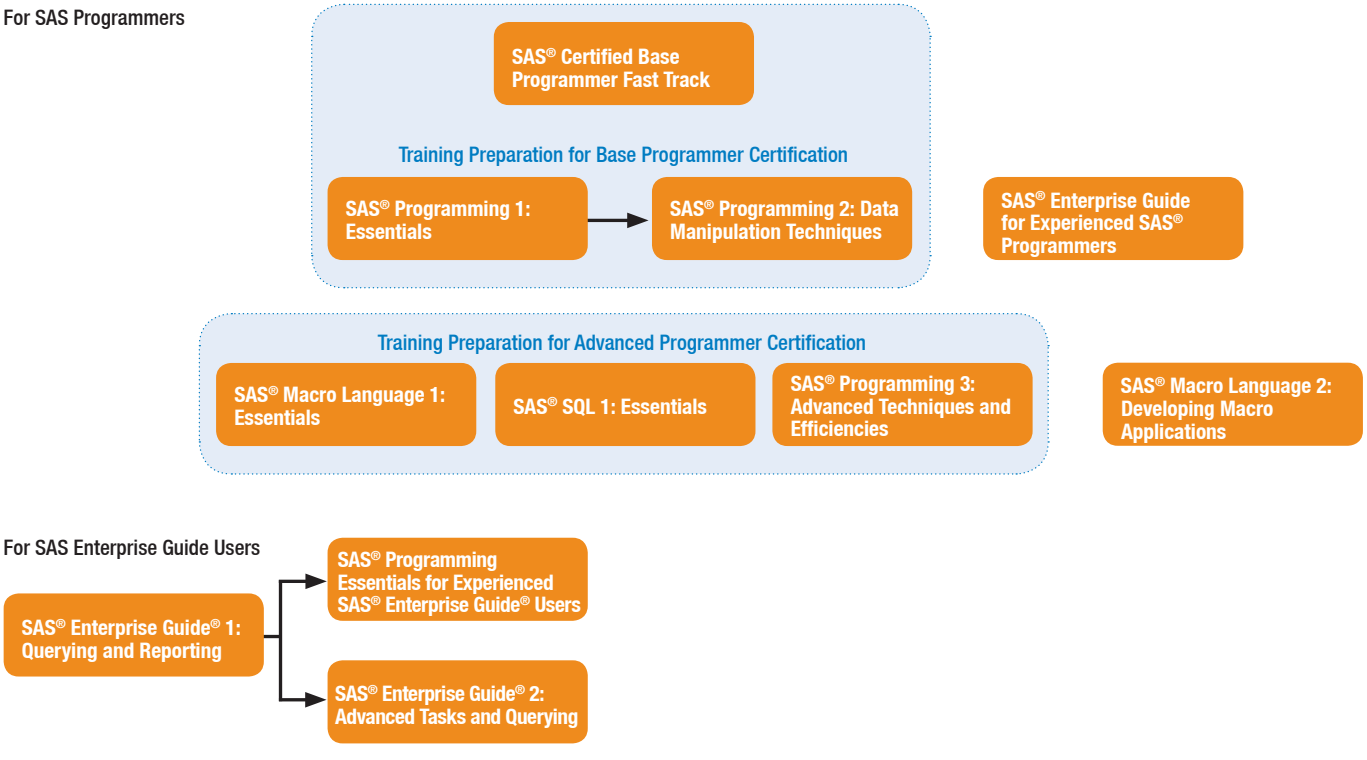
Debugging Techniques

- Using the PUT Statement
- Using the DEBUG Option.

Software addressed:

- Base SAS®.

Training Path for Programmers



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