



Base 3 Systems delivers knowledge

Through exceptionally well-documented training courses delivered by highly qualified instructors, re-enforced with relevant industry specific exercises and, if required, one to one mentoring.

About Base 3 Systems

Base 3 Systems is an established, highly regarded Software Consultancy and SAS Institute Consulting Alliance Partner, specialising in solutions to business problems using SAS® Software.

Our instructors are all experienced SAS consultants who have been using SAS software for many years. The approach we use is to tackle learning needs by reinforcing the technical information delivered on our training courses with comprehensive practical sessions, leading to much more workshop based, rather than 'stand and deliver' courses.

Our standard courses are appropriate for a wide range of abilities and centre around the core of the SAS System. All are developed with MS Windows in mind, however, they can be tailored to suit your operating system requirements.

The costs of courses are extremely competitive and will vary according to number of attendees, duration of course and individual requirements. Please note that, unlike our competitors, we do not offer public courses. Instead, our standard courses are delivered exclusively to your organisation at public course prices.



Base 3 Systems Head Office and Training Rooms

Programming with SAS®

Course Aims

The goal of this course is to take someone with little or no previous exposure to the SAS System, or any other programming language, and produce someone who is able to perform elementary coding operations with the SAS System.

After attending this course, attendees should have a broad understanding of data input, manipulation, reporting and output with the SAS System. They should be able to: write data steps that read/write raw input or native SAS tables; apply code to deal with date processing structures; shape, transform and conditionally process data; and, produce simple reports with the Output Delivery System in many different formats (e.g. HTML, RTF and PDF).

Duration

4 days

Required Knowledge

No previous programming knowledge is assumed, but familiarity with MS Windows, a keyboard and a mouse is essential.



Programming with SAS® - Concepts Covered

Navigating the SAS System

- *Explorer window*
- *Results window*
- *Enhanced Editor*
- *Output and viewer windows*
- *Log window*

Programming Fundamentals

- *Variables*
- *Statements*
- *Operators*
- *Expressions*
- *Functions*

SAS Tables / Datasets

- *Librefs*
- *Viewing SAS Tables*
- *Reading SAS Tables*
- *Sub-setting SAS Tables*
- *Writing SAS Tables*
- *Combining SAS Tables*

Data Processing

- *Conditional processing*
- *Data transformations*
- *Date processing*
- *Retaining values*
- *Repetitive processing*

Reading Raw Data

- *Filerefs*
- *Infile statement*
- *Input statement*
- *Informats*

Writing Raw Data

- *File statement*
- *Put statement*
- *Formats*

Reporting with the Output Delivery System

- *Proc Tabulate*
- *Proc Report*
- *Proc Print*
- *Proc Means*

SAS Version 9

- *Functions*
- *Statements*
- *Procedures*
- *Formats/Informats*

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