

Macro Processing in SAS Software – Advanced Topics

Duration: 1 day CEUs: 0.6

AUDIENCE

SAS Programmers and Analysts who use macros.

BENEFITS

This course is designed to take attendees to the next level of macro understanding in SAS software. This course demonstrates the use of macros in every day business situations, which enhance productivity and efficiency in not only processing, but time to build programs. The creation of dynamic code based on data values and the set up of generic, reusable code libraries will be discussed. Macros as they apply to SAS/CONNECT, SAS/STAT, SAS/GRAPH and other modules of SAS will be taught. This course will also cover the use of autocall libraries, data step function calls and debugging techniques.

PREREQUISITES

Macro Processing in SAS Software or equivalent experience.

COURSE TOPICS

Web based formatting macros
Nesting and recursive macros
The use of quoting functions
Using macros with your operating system
Macro return codes
Compiled macro libraries
Statement and Command style macros
Macro Do Loops
Proc SQL creation of macro values
The RESOLVE function
Evaluation Functions

- %EVAL
- %SYSEVALF

Data Step Functions

- %SYSFUNC
- %QSYSFUNC
- %SYSCALL
- ATTRN

Macro Routines and Utilities
Moving members and data between locations
Working with System Dates and Times

Examining Operating System permissions
Automated reading and filtering of data
Automated analysis of values found in any set of columns

Determining the existence of

- a macro variable
- a data set

Understanding the SAS supplied macro utilities

Macro arrays

Efficiency techniques and tips

Sampling with macros

Execution time macro processing

Software Used: Base SAS software