

[SAS-MC2]: SAS Macro Language 2: Advanced Techniques

Length : 2 Days
Delivery Method : Instructor-led (Classroom)

Course Overview

This course covers macro quoting functions, macro storage, and macro techniques for advanced data access, table lookup operations, advanced parameter validation, and macro windows.

Audience Profile

Experienced SAS macro programmers who want to learn advanced techniques

At Course Completion

Learn how to

- Create hierarchical, menu-driven macro applications
- Exploit stored compiled and autocall macro facilities
- Exploit macro quoting functions
- Generate data-driven macro calls
- Perform table lookup operations
- Apply SAS or user-defined formats to macro variables
- Automatically convert data set variables to macro variables
- Search for all CSV, Excel, or Microsoft Access files in a directory and all subdirectories and automatically import each file, worksheet, or table into a SAS data set
- Search for all SAS programs in a directory and all subdirectories and automatically submit every program
- Exploit SAS I/O and external file functions
- Create your own macro functions
- Create macro functions that return the number of observations in a data set or a subset of a data set
- Create a macro function that validates whether a selected variable exists in a selected data set and returns the variable's type
- Create custom windows and menus that interactively gather and validate user-supplied parameter values.

Pre-Requisites

In order to be successful in this course, you should have completed the SAS Macro Language 1: Essentials course or have equivalent knowledge and experience. Specifically, you should be able to

- Write macro programs that contain iterative processing and conditional processing
- Create local and global macro variables

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- Create macro variables using the SYMPUTX routine
- Utilize indirect macro variable references
- Utilize the SQL procedure SELECT statement INTO clause.

This course addresses Base SAS software.

Course Outline

Module 1: Macro Storage

Lessons

- Stored compiled macro facility
- Autocall macro facility

Module 2: Protecting Special Characters

Lessons

- Protecting constant text
- Protecting resolved values

Module 3: Reading SAS Data

Lessons

- Data-driven macro calls
- SAS I/O functions

Module 4: Reading External Data

Lessons

- Importing CSV files
- Importing Microsoft Excel files

Module 5: Table Lookup Techniques

Lessons

- Macro variables
- Formats

Module 6: Validating User Input

Lessons

- Macro parameters
- Macro windows

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