

SAS(R) Macro Language 2: Advanced Techniques

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| Code: | MC2 |
| Length: | 2 days |
| URL: | View Online |

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

Skills Gained

- 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.

Who Can Benefit

- Experienced SAS macro programmers who want to learn advanced techniques

Prerequisites

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

Course Details

Macro Storage

- stored compiled macro facility
- autocall macro facility

Protecting Special Characters

- protecting constant text
- protecting resolved values

Reading SAS Data

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

Reading External Data

- importing CSV files
- importing Excel files

Table Lookup Techniques

- macro variables
- formats

Validating User Input

- macro parameters
- macro windows