

SAS Macro Language 1: Essentials

Course Code: SIMAC1

Delivery Method: Instructor-led (classroom)

Duration: 2 Days

OVERVIEW

Learn how to:

- Perform text substitution in SAS Code
- Automate and customize the production of SAS code
- Conditionally or iteratively construct SAS code
- Use macro variables and macro functions

WHO SHOULD ATTEND

Experienced SAS programmers who have a sound understanding of DATA step processing and who want to write SAS programs that are reusable and dynamic.

PREREQUISITES

Before attending this course, you should have completed the SAS Programming 2: Data Manipulation

Techniques course or have equivalent knowledge.

Specifically, you should be able to:

- Use a DATA step to read from or write to a SAS data set or external file
- Use DATA step programming statements such as IF-Then/ELSE, DO WHILE, DO UNTIL, and iterative DO
- Use SAS data set options such as DROP=, KEEP=, and OBS=
- Use character functions such as SUBSTR, SCAN, INDEX, and UPCASE
- Form subsets of data using the WHERE clause
- Create and use SAS date values and constants
- Use SAS procedures such as SORT, PRINT, CONTENTS, MEANS, FREQ, TABULATE, and CHART.

This course is appropriate for students who are using SAS 9 software.

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COURSE OUTLINE

Introduction

- An overview of SAS foundation
- Course logistics
- Purpose of the macro facility
- Program flow

Macro Variables

- Introduction to macro variables
- Automatic macro variables
- Macro variable references
- User-defined macro variable
- Delimiting macro variable references
- Macro functions

Macro Definitions

- Defining and calling a macro
- Macro parameters

DATA Step and SQL Interfaces

- Creating macro variables in the DATA step
- Indirect references to macro variables
- Creating macro variables in SQL

Macro Programs

- Conditional processing
- Parameter validation
- Iterative processing
- Global and local symbol tables

Learning More

- SAS resources
- Beyond this course

Supplemental Materials

- Program flow

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