

[SAS-PG294]: SAS Programming 2: Data Manipulation Techniques

Length : 3 Days
Audience(s) : Anyone starting to write SAS programs
Delivery Method : Instructor-led (Classroom)

Course Overview

This course is for those who need to learn data manipulation techniques using the SAS DATA step and procedures to access, transform, and summarize data. The course builds on the concepts that are presented in the SAS Programming 1: Essentials course and is not recommended for beginning SAS software users.

Audience Profile

Business analysts and SAS programmers

At Course Completion

Learn how to

- Understand and control DATA step processing
- Create an accumulating column and process data in groups
- Manipulate data with functions
- Convert column type
- Create custom formats
- Concatenate and merge tables
- Process repetitive code
- Restructure tables

Pre-Requisites

Before attending this course, you should have experience using computer software. Specifically, you should be able to

- Write DATA step code to subset rows and columns, compute new columns, and process data conditionally
- Sort tables using the SORT procedure
- Apply SAS formats

This course addresses Base SAS software.

Course Outline

Module 1: Controlling DATA Step Processing

Lessons

- Setting up for this course

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- Understanding DATA step processing
- Directing DATA step output

Module 2: Summarizing Data

Lessons

- Creating an accumulating column
- Processing data in groups

Module 3: Manipulating Data with Functions

Lessons

- Understanding SAS functions and CALL routines
- Using numeric and date functions
- Using character functions
- Using special functions to convert column type

Module 4: Creating Custom Formats

Lessons

- Creating and using custom formats
- Creating custom formats from tables

Module 5: Combining Tables

Lessons

- Concatenating tables
- Merging tables
- Identifying matching and nonmatching rows

Module 6: Processing Repetitive Code

Lessons

- Using iterative DO loops
- Using conditional DO loops

Module 7: Restructuring Tables

Lessons

- Restructuring data with the DATA step
- Restructuring data with the TRANSPOSE procedure

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