

SAS II: Data Manipulation With the SAS System

Course Summary

Description

The course is mostly lecture with some time for exercises, demonstrations and working on problems students bring to class.

Topics

- Introduction to Data Management
- Creating SAS Datasets by Reading and Processing NON SAS Data
- Using SAS Functions
- Iterative Processing
- Using SAS Arrays
- Reading, Combining and Using SAS Data Sets

Audience

SAS Users who have taken an introductory level course and want to further their SAS skills.

Prerequisites

Students should take ProTech's Introduction to SAS before attending this class.

Duration

Three Days

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Course Outline

I. Introduction to Data Management:

- A. Course Overview
- B. Review of Program Flow
- C. Review of Basic Concepts

II. Creating SAS Datasets by Reading and Processing NON SAS Data

- A. How to create one observation from more than one record
- B. How to read files with different record layouts
- C. How to generate more than one observation from only one record
- D. How to read hierarchical data

III. Using SAS Functions

- A. How to manipulate numeric values
- B. How to manipulate character values
- C. How to use functions for data conversion
- D. How to use other useful functions

IV. Iterative Processing

- A. How to read data with DO loops
- B. Generating data with DO loops
- C. Typical SAS applications using DO loops

V. Using SAS Arrays

- A. How to use SAS arrays
- B. Using SAS arrays to transpose SAS data sets

VI. Reading, Combining, and Using SAS Data Sets

- A. How to use special tools to read a SAS data set
- B. How to perform complex joins with the SAS System.
- C. How to use special tools while joining SAS data sets
- D. How to perform random sampling with the SAS System (with and without replacement)
- E. How to use SAS data sets in table lookup applications