

Introduction to the SAS System

Introduction (Getting Started)

- Features and basic concepts
- The SAS environment
- Running SAS interactively
- Program flow
- Syntax rules
- SAS files
- Structure of a SAS dataset

Writing and Submitting SAS Programs

- In depth look at DATA step
- Basic statements (compiling and executing)
- SAS date values
- Step by step approach to submitting programs
- Handling errors at compile and execution time
- How the SAS system accesses non-SAS data

Creating Simple Reports

- Introduction to the PROC step-processing the dataset
- Generating list reports
- Sorting the dataset
- In depth look at PROC PRINT and PROC SORT
- A Quick look at storing SAS data sets permanently

Simple Data Manipulation

- Creating new variables
- SAS functions
- Using If-Then logic
- Using DO groups
- Reading SAS datasets
- Controlling the content (rows and columns) of the SAS dataset

Generating Statistical Reports

- Descriptive statistics (min, max, mean, n, sum, kurtosis, standard deviation, t, corrected sum of squares, uncorrected sum of the squares, covariance, frequency counts, median, quartiles, percentiles)
- An in depth look into the MEAN/SUMMARY procedures
- A quick overview to the UNIVARIATE procedure

Combining SAS Datasets

- Using the SET statement
- Using the MERGE statement
- Using the UPDATE statement

An Advanced Look at Reports

- What is a report
- Types of reports generated with SAS
- Report writing options

Writing Detail Reports

- An in depth look at the PRINT procedure
- Utility procedures for enhancing reports
- Writing reports with the DATA step

Summary Reports

- An introduction to summarizing data
- Summary procedures
- Using the FREQ procedure
- Generating reports with the REPORT procedure
- A Quick look at ODS