



SAS® 101: Success with the SAS System



Presentation Formats:
One-day lecture only or multi-day on-site
with hands-on exercises and customization

Success with the SAS System shows you the core tools in BASE SAS Software you can apply to extract, analyze and report data. It is intended for those with limited, or no prior experience with the SAS System.

After taking this seminar you will be able to:

- Understand core SAS System concepts such as data set, data step, procedure step and data set descriptor portion.
- Select records/rows from an existing data set and apply SAS programming language tools to them
- Apply PROCs PRINT and FREQ to create simple reports
- Add titles and footnotes to your output
- Understand ERRORS and WARNINGS shown in your SASLOG
- Write and submit SAS programs for execution
- Know when to use a Data Step and when to apply a Procedure Step in your programming/reporting tasks
- Access the SAS Software documentation to obtain answers to your questions
- Successfully complete the Summarizing and Reporting Data, and the SAS 201: Advanced SAS Programming seminars also offered by Sierra.

Overview

This seminar introduces you to the core elements and concepts of the SAS System, and shows you how you can successfully apply SAS' capabilities to extract, manage, report and analyze data. By attending this session you receive a comprehensive overview of BASE SAS Software's capabilities and what they can do for you. The materials are presented in lecture format using a combination of instructor demonstrations and presentations. When presented on-site the contents are usually customized with example data sets/problems provided by the client and hands-on exercises are added to the agenda.

Intended Audience

This session is designed for attendees with little, or no prior experience with the SAS System, or for those who have not used SAS for an extended period who wish to re-acquaint themselves with the product. The materials presented assume a basic level of understanding, and familiarity with, computer concepts such as data set and the rows/columns of a data set as well as basic arithmetic concepts such as addition, multiplication and division.

Seminar Topics:

Overview of the SAS System

- Core concepts of the SAS System
 - Data Step
 - Procedure Step
 - Interplay/relationship between Data and Procedure Steps

The SAS Data Set: rows, columns and descriptor portion

Looking at SAS Data Sets

- The PRINT and CONTENTS Procedures
- The SAS Viewtable™

Using BASE SAS Programming Tools

- Creating SAS Data Sets
 - Extracting Observations (rows) from an Existing SAS Data Set
 - The "Subsetting IF" statement
- Selecting Random Samples from a SAS Data Set
- Key SAS Programming Language Functions
- Applying SAS-Supplied Formats
- Creating Your Own Formats with PROC FORMAT
- Working with Date and Time Variables in the SAS System
- Exporting Data from SAS to other file formats

Interpreting NOTES, ERROR and WARNING Messages in the SASLOG

Applying SAS Procedures to Your SAS Data Sets

- PROC FREQ: generating frequency tables and "cross tabs" from your data sets
- PROC PRINT: displaying the rows/columns of your data set
- PROC MEANS: analysis and summary of numeric data variables

Contact Sierra Information Services for More Information
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About the Instructor

This seminar is written and presented by Andrew Karp, who started his own SAS Software consulting and training firm, Sierra Information Services, in 1994. Prior to starting Sierra he used SAS Software to manage and analyze data while holding positions with PriceWaterhouseCoopers, Federal Express Corporation, Pacific Gas & Electric Company and Kaiser Foundation Health Plan. A 25-year SAS user, Andrew is a SAS Certified Professional™ who has presented this, and other, training seminars to SAS users in the United States, England, Scotland, Belgium, Australia, New Zealand and the People's Republic of China.

He has served on the technical review teams for seven books published by SAS Institute and has been an invited speaker at twelve consecutive SAS Global Forum/SAS User Group International conferences, as well as other events for SAS users in seven countries. Andrew earned undergraduate and graduate degrees from The George Washington University and taught for UC Berkeley's Extension Division from 1989 to 1995. He has also been a visiting lecturer in the Dept. of Experimental Statistics at Louisiana State University and at the University of Auckland in New Zealand.

About Sierra Information Services

Sierra Information Services is a **leading independent provider of SAS Software** consulting and training services. Our firm is based in the California Wine Country region north of San Francisco but travel both domestically and internationally to work with clients and present training seminars. Sierra offers clients a wide range of support, including SAS programming, data analysis/data mining with SAS tools, as well as the design and delivery of customized SAS Software training solutions tailored to the client's individual needs. Since its inception in 1994 Sierra has provided consulting and/or training services to, among others, Wells Fargo Bank, Bear Creek Corporation, Limited Brands, IBM, American Honda Motor Company, Lloyd's Bank/TSB, Capitol One Financial Services, Inc., Discover Financial Services, Inc., the US Department of Commerce and the US Federal Communications Commission. We have also provided consulting and training for numerous public and private sector entities in the United Kingdom, Belgium, Australia and New Zealand.

In addition to training solutions developed by Sierra's founder, Andrew Karp (see instructor's bio above), Sierra also works with other leading SAS experts to offer their training seminars around the United States. Sierra is proud to have well-known experts such as Art Carpenter, Michael Raitel, and David Cassell present their training seminars under our auspices.

For the most current list of our public seminars, or to learn more about how Sierra can assist you and your organization, please visit our web site at www.Sierrainformation.com or call us a (707) 360 5383. We look forward to hearing from you soon!



*...Maximizing your investment in the SAS® System...
and those in your organization who use it...*

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