



## Elite Technology Training Services - *SAS Training Course Catalog* -

1. SAS I: An Introduction to the SAS System - *(3 Days)*
  2. Generating Reports With the SAS System - *(1 Day)*
  3. SAS II: Data Preparation, Management, and Processing - *(3 Days)*
  4. Manipulating Data With Functions and Arrays – *(1 Day)*
  5. Introduction to the SAS Macro Facility - *(1 Day)*
  6. Changes and Enhancements to Version 9 of the SAS System - *(1 Day)*
  7. SAS III: Advanced and Efficient SAS Programming - *(2 Days)*
  8. An Introduction to SQL - *(1 Day)*
  9. Advanced SQL Processing - *(1 Day)*
  10. Introduction to Enterprise Guide 4.1 – *(1 Day)*
  11. Introduction to SAS/Business Intelligence Server – *(1 Day)*
  12. Introduction to SAS/Enterprise Miner – *(2- 3 days)*
- ❖ *Custom Courses* - Elite is capable of providing custom training by combining components of the above standard courses as well as providing training for other SAS products not specifically listed in our standard course offerings.

All courses are a combination of lecture, demonstrations and hands-on workshops. Lecture notes, handouts, and workshop materials are provided for students. Courses have been updated to SAS Version 9 where applicable.

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# Course Descriptions

## 1. SAS I: An Introduction to the SAS System

This is a foundation course that focuses on the Base SAS System and how to write programs that accomplish basic data processing tasks. Topics include: Basic SAS Concepts, SAS Dates, Accessing Data, Processing Data, Storing Data, Analyzing Data, Generating Basic Reports.

## 2. Generating Reports With the SAS System

This course teaches students how to use several of the SAS procedures (including PROC REPORT) as well as the DATA step ( data \_null\_ ) to generate reports. Attention is given to understanding data, as well as report requirements. Topics include: Data Preparation, Detail Reports, Summary Reports, and Graphic Reports. Also, a quick look is given to the Output Delivery System. (This course is essentially the same as the 3<sup>rd</sup> day of the SAS I course).

## 3. SAS II: Data Preparation, Management, and Processing

This course focuses on using the DATA step to prepare data for many of the types of applications for which students will use the SAS System, including EIS and Data Warehouse applications. Topics include: Reading and Accessing Non-SAS Data, Functions, Do Loops, Arrays, and Combining SAS Data Sets. The course concludes with a short introduction to PROC SQL.

## 4. Manipulating Data Using Functions and Arrays

This course is a one day subset of the SAS II course. It focuses solely on the DATA step and sheds much light on the power and functionality of the many Functions in the SAS System. An in-depth look is given to the Arrays, how to create them, how they work, and how to manipulate data with them.

## 5. Introduction to the SAS Macro Facility

This course teaches the fundamentals in creating and using SAS Macros as well as Macro variables. Emphasis is on solving common problems through using the Macro language.

## 6. Changes and Enhancements to Version 9 of the SAS System

This course introduces the student to the new features of the SAS System in Version 9.

## 7. SAS III: Advanced SAS Programming

This course looks at basic efficiency issues, accessing data, saving space by compressing SAS data sets, saving time by indexing SAS data sets, table lookup techniques, advanced DATA step processing, and advanced utility operations.

## 8. An Introduction to SQL

This course begins by looking at basic queries and sub-queries. Next, a look is given to the joining of tables and all the possible ways of doing this with SQL. Finally, the course covers an introduction to SQL macros.

## 9. Advanced SQL Processing

This course is a sequel to the Intro to SQL course. It goes into more detail on some of the more complex queries. It follows a scenario of building a data mart for a Customer Relationship Management application.

## 10. Introduction to SAS/Enterprise Guide

This course introduces the student to Enterprise Guide, a new product which is a point and click interface to the power and functionality of the SAS system. Enterprise Guide gives the student query tools to access the data needed, analyze the data, and then generate all kinds of reports and graphs from the data... all in a very easy to use interface. This product is a great introduction to the SAS system.

## 11. Introduction to SAS/Business Intelligence Server

This course shows students how to use key components of the SAS Business Intelligence (BI) solution including how to develop applications with: (1) SAS Add-in for Microsoft Office, (2) SAS OLAP Cube Studio, (3) SAS Information Map Studio, (4) Information Delivery Portal, (5) Web Report Studio. Topics include: accessing SAS Data Sources, how to run SAS reports in MSOffice using Stored Processes and Enterprise Guide tasks, building and using SAS OLAP cubes, building and using Information Maps and developing web based reports in Web Report Studio and the Information Delivery Portal.

## 12. Introduction to SAS/Enterprise Miner

This course introduces students to the Data Mining process and how to utilize the SAS Enterprise Miner solution to access and explore data, build a variety of predictive models and create meaningful output.