

Wizards Training

SAS Course Curriculum

Duration: Four Weekends/ Sat & Sun: 9.00am – 1.00pm or 1.00pm – 5.00pm
Weekdays - Mon, Wed, Fri: 6.30pm – 9.30pm or Tue, Thu: 6.30pm – 9.30pm

SAS

1. Introduction to Programming Using SAS® Software

- ☐ Introduction to SAS software
- ☐ Using SAS in the Windowing Environment
- ☐ Methods of reading raw data

2. SAS Programming I: Essentials

- ☐ Creating and executing SAS programs in batch and interactive mode
- ☐ Understanding errors in SAS log
- ☐ Understanding SAS data set and library structure
- ☐ Understanding SAS syntax and SAS naming conventions
- ☐ Overview of Base SAS Procedures
- ☐ Creating DATA and PROC steps
- ☐ SAS Data Step statements

3. SAS Programming II: Manipulating Data with the DATA Step

- ☐ Controlling Input and Output Data
- ☐ Summarizing Data
- ☐ Reading and Writing Different Types of Data
- ☐ Data Transformations
- ☐ Processing Data Iteratively
- ☐ Combining SAS Data Sets

4. SAS Macro Language

- ☐ Introduction to Macros
- ☐ Applying Macro Variables in SAS programs
- ☐ Incorporating SAS Macros in DATA Step
- ☐ Running Macro Programs in SAS Software
- ☐ Techniques for Storing Macros

5. SQL Processing with the SAS System

- ☐ Overview of SQL Procedure
- ☐ Displaying Query Results
- ☐ Subqueries
- ☐ SQL Joins and Set Operators
- ☐ Creating Indexes and tables in SQL
- ☐ PROC SQL as compared to the DATA Step
- ☐ SAS Dictionary tables and views
- ☐ Interfacing PROC SQL with the Macro language

6. Output Delivery System (ODS)

- ☐ Basic Concepts of ODS
- ☐ Explore various ODS destinations like HTML, PDF, RTF, XML, PRINTER
- ☐ Using the Output Delivery System in the DATA Step
- ☐ TEMPLATE Procedure
- ☐ Customizing Table Templates
- ☐ Customizing Style Templates with ODS
- ☐ Using Options and ODS ESCAPECHAR

7. Creating Detail and Summary Reports

Training Location: 1039 Sterling Road, Ste. 103, Herndon-VA-20170. USA.

Ph: 703-263-7278, 703-968-6268 Fax: 703-935-8849 training @wizardsedu.com

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- ☐ Creating Detail Reports with the REPORT Procedure
- ☐ Creating Summary Reports with the REPORT Procedure
- ☐ Creating Summary Reports with the TABULATE Procedure
- ☐ Other Methods for Summarizing and Reporting using FORMATS

8. SAS Enterprise Guide™: Querying and Reporting

- ☐ Access and Transform Data
- ☐ Creating Simple Queries
- ☐ Creating Summarized Output
- ☐ Working with Results and Automating Projects

9. Data Cleaning Techniques using DATA step programming and SAS procedures

- ☐ Checking values of Character Variables
- ☐ Checking values of Numeric Variables
- ☐ Checking for Missing Values
- ☐ Double Entry and Verification
- ☐ Looking for Duplicates and n Observations per Subject

10. Optimization Tips and Techniques in SAS Software

- ☐ Efficiency Techniques and Benchmarking
- ☐ SAS Dataset Modification and Space Reduction
- ☐ Table Lookup Techniques
- ☐ Sorting Techniques and Efficiencies for Large Data Sets

Base SAS, SAS/GRAPH, and SAS/STAT software will be used in this class.

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