

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

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- ❖ Introduction to Programming Using SAS® Software
 - ✓ Introduction to SAS software
 - ✓ Using SAS in the Windowing Environment
 - ✓ Methods of reading raw data
- ❖ 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
- ❖ 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
- ❖ 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
- ❖ 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

Training Location: 1033 Sterling Road, Ste. 103, Herndon-VA-20170. USA.
Ph: 703-263-7278 Fax: 703-935-8849 training @wizardsedu.com
(Behind Fuddruckers @ Cross Roads of Dulles on Elden Street)

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- ❖ 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

- ❖ Creating Detail and Summary Reports
 - ✚ 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

- ❖ SAS Enterprise Guide™ : Querying and Reporting
 - ❖ Access and Transform Data
 - ❖ Creating Simple Queries
 - ❖ Creating Summarized Output
 - ❖ Working with Results and Automating Projects

- ❖ 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

- ❖ 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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