

Indus IT Training

Course: 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

Location: 1033 Sterling Road, Ste. 204, Herndon-VA-20170. USA.
Ph: 703-574-3268 Ext: 7019 / Fax: 703-935-8849 / training@industraining.net
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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
- ✦ Sub queries
- ✦ 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

5. 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
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7. 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

8. SAS Enterprise Guide™: Querying and Reporting

- ✦ Access and Transform Data
- ✦ Creating Simple Queries
- ✦ Creating Summarized Output
- ✦ Working with Results and Automation 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 Subjects

6. 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

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