

**SAS Course Content:35-40hours**

**Course Outline**

**Getting Started With The SAS System**

- Overview of the sas system
- Introduction to sas programs
- Running sas programs
- Mastering fundamental concepts
- Diagnosing and correcting syntax errors
- Exploring the sas environment (self-study)

**Getting familiar with sas data sets**

- Explaining the concept of a sas data library
- Producing list reports
- Getting started with print procedure
- Sequencing and grouping observations
- Identifying observations (self-study)
- Using special where statement operators (self-study)

**Enhancing output**

- Customizing report appearance
- Formatting data values
- Creating html reports

**Creating sas data sets**

- Reading raw data files using column input and formatted input
- Examining data errors
- Assigning variable attributes
- Changing variable attributes (self-study)
- Reading microsoft excel spreadsheets (self-study)

**Programming with the data step**

- Reading sas data sets and creating variables
- Executing statements conditionally
- Dropping and keeping variables (self-study)
- Reading date fields from microsoft excel spreadsheets (self-study)

**Combining sas data sets**

- Concatenating sas data sets
- Merging sas data sets
- Combining sas data sets using additional features (self-study)

**Producing summary reports**

- Introduction to summary reports
- Generating basic summary reports
- Using the report procedure
- Creating reports using the tabulate procedure (self-study)

**Introduction to graphics using sas/graph software (self-study)**

- Producing bar and pie charts
- Enhancing output
- Producing plots

**Additional resources using sas enterprise guide**

- Creating the files needed for the course
- Understanding functional areas in sas enterprise guide
- Naming a project
- Working with existing code
- Resizing windows in sas enterprise guide
- Modifying code
- Executing sas code
- Viewing sas enterprise guide output
- Diagnosing and correcting syntax errors
- Creating sas programs
- Accessing data sources with the libname statement
- Renaming a code node in the process flow window
- Submitting programs
- Saving projects
- The output delivery system (ods) and sas enterprise guide
- Copying sas programs within a project

**Introduction to graphics using enterprise guide**

- Producing and modifying a vertical bar chart
- Producing and modifying a pie chart
- Producing a horizontal bar chart
- Producing a two-dimensional plot