

# PHILLOS INSTITUTE

Near uphara darshini, Jayanagar 3rd block, Bangalore, Karnataka, India. – 11

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## SAS Course (Base & Advanced) Out Line

### What are the prerequisites for learning SAS?

What if I say nothing? Yes, there is no such prerequisite needed to learn SAS. You can start right away. But I'd suggest you should learn following skills. (Optional)

1. SQL (Optional)
2. Advanced Excel (Optional)

Having knowledge of above mentioned skills going to help you to understand SAS more effectively.

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**Duration : 30 days Per day 2 hour (Monday to Friday)**

**(Fast Track 7-10 days classes are also available )**

**(Weekend Class Also Available only Saturday)**

**Timings :** Starts from 11:30 AM to 8.00 pm we have batches

Course completion certificates will be provided from Institute after the course.

**Discount Fee - 13,000/- (Without discount 20000/-)**

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### Course Details

PFA for course outline...

#### Introduction

course logistics

overview of Foundation SAS

SAS syntax review

navigating the SAS windowing environment (self-study)

#### Getting Started with SAS

introduction to SAS programs

submitting a SAS program

#### Working with SAS Syntax

mastering fundamental concepts

diagnosing and correcting syntax errors

#### Getting Familiar with SAS Data Sets

examining descriptor and data portions

accessing SAS data libraries

accessing relational databases (self-study)

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## Reading SAS Data Sets

- introduction to reading data
- using SAS data as input
- subsetting observations and variables
- adding permanent attributes

## Reading Excel Worksheets

- using Excel data as input
- doing more with Excel worksheets (self-study)

## Reading Delimited Raw Data Files

- using standard delimited data as input
- using nonstandard delimited data as input

## Validating and Cleaning Data

- introduction to validating and cleaning data
- examining data errors when reading raw data files
- validating data with the PRINT and FREQ procedures
- validating data with the MEANS and UNIVARIATE procedures
- cleaning invalid data

## Manipulating Data

- creating variables
- creating variables conditionally
- subsetting observations

## Combining SAS Data Sets

- introduction to combining data sets
- appending a data set (self-study)
- concatenating data sets
- merging data sets one-to-one
- merging data sets one-to-many
- merging data sets with nonmatches
- Enhancing Reports

## using global statements

- adding labels and formats
- creating user-defined formats
- subsetting and grouping observations
- directing output to external files

## Producing Summary Reports

- using the FREQ procedure
- using the MEANS procedure
- using the TABULATE procedure (self-study)

## Introduction to Graphics Using SAS/GRAPH (Self-Study)

- creating bar and pie charts
- creating plots
- enhancing output

## Controlling Input and Output

- outputting multiple observations
- writing to multiple SAS data sets
- selecting variables and observations

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## Summarizing Data

creating an accumulating total variable  
accumulating totals for a group of data

## Reading Raw Data Files

reading raw data files with formatted input  
controlling when a record loads  
additional techniques for list input (self-study)

## Data Transformations

manipulating character values  
manipulating numeric values  
converting variable type

## Debugging Techniques

using the PUTLOG statement  
using the DEBUG option

## Processing Data Iteratively

DO-loop processing  
SAS array processing  
using SAS arrays

## Restructuring a Data Set

rotating with the DATA step  
using the TRANSPOSE procedure

## Combining SAS Data Sets

using data manipulation techniques with match-merging

## Other SAS Languages

an overview of other languages  
using the SQL procedure  
the SAS macro language

For More details please contact us **Ph: 9844885059 | 9620890035**