# SAS® Programming 1: Essentials Training

Duration: **3 Day**

BILGINC IT Academy
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This course is for users who want to learn how to write SAS programs. It is the entry point to learning SAS programming and is a prerequisite to many other SAS courses. If you do not plan to write SAS programs and you prefer a point-and-click interface, you should attend the SAS Enterprise Guide 1: Querying and Reporting course.

## Prerequisites

Before attending this course, you should have experience using computer software. Specifically, you should be able to

- understand file structures and system commands on your operating systems
- access data files on your operating systems.

No prior SAS experience is needed

**Who should attend?**

Anyone getting started writing SAS programs

## What You Will Learn

- navigate the SAS windowing environment
- navigate the SAS Enterprise Guide programming environment
- read various types of data into SAS data sets
- create SAS variables and subset data
- combine SAS data sets
- create and enhance listing and summary reports
- validate SAS data sets.

## Training Outline

Introduction

- overview of SAS Foundation
- course logistics
- course data files

SAS Programs

- introduction to SAS programs
- submitting a SAS program
- SAS program syntax

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Accessing Data

- examining SAS data sets
- accessing SAS libraries

Producing Detail Reports

- subsetting report data
- sorting and grouping report data
- enhancing reports

Formatting Data Values

- using SAS formats
- creating user-defined formats

Reading SAS Data Sets

- reading a SAS data set
- customizing a SAS data set

Reading Spreadsheet and Database Data

- reading spreadsheet data
- reading database data

Reading Raw Data Files

- introduction to reading raw data files
- reading standard delimited data
- reading nonstandard delimited data
- handling missing data

Manipulating Data

- using SAS functions
- conditional processing

Combining Data Sets

- concatenating data sets
- merging data sets one-to-one
- merging data sets one-to-many
- merging data sets with nonmatches

Creating Summary Reports

- using the FREQ procedure
- using the MEANS and UNIVARIATE procedures
- using the Output Delivery System

Learning More

- SAS resources
- next steps

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