

JADE Tech, Inc.

SAS® PROGRAMMING AND REPORT WRITING

Course Overview:

This course is designed as an entry level introduction to the SAS System and is intended as a foundation for new SAS users. No prior knowledge of the SAS System or SAS programming is required, but a basic understanding of data processing skills is assumed.

The primary areas of emphasis are:

- SAS Language Syntax
- SAS Programming Fundamentals
- DATA and PROC steps
- Basic Data Manipulation
- Simple Report Writing using SAS

Course Objectives:

Upon completion of this course, attendees should have:

- a basic understanding of the SAS System
- a basic understanding of SAS syntax and SAS programming techniques
- an understanding of the DATA step and DATA step processing
- the ability to create basic SAS reports using PROC PRINT and PROC TABULATE
- the ability to enter and edit data in SAS data sets

Prerequisites:

No prior SAS experience is needed.

Attendees should understand how to access and use a computer.

Course Length:

Two days - Lecture only

Three days - Hands On workshop

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A SAS INSTITUTE QUALITY PARTNER

JADE Tech, Inc.

INTERMEDIATE SAS® PROGRAMMING SKILLS

Course Overview:

This course is designed as a follow-on to SAS Programming and Report Writing. It revisits some of the areas covered in the prior course and adds additional content, but in more detail commensurate with the knowledge level of the attendee. The course assumes the attendee has used the SAS System and is ready for a more detailed understanding.

The primary areas of emphasis are more in-depth examination of:

- DATA step programming
- Data transformations
- Iterative processing (DO loops)
- Reading External Data Files and working with SAS Data Sets
- Efficient Programming Techniques

Course Objectives:

Upon completion of this course, attendees should have:

- understanding of the SAS DATA step and DATA step processing
- ability to process raw data files and SAS data sets
- understanding of data manipulation techniques in SAS
- understanding of SAS functions and how to use them
- understanding of DO loops and Array processing
- understanding of efficient SAS programming techniques

Prerequisites:

Prior experience with the SAS System.

Course Length:

Two days - Lecture only

Three days - Hands On workshop

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SAS® PROGRAMMING TIPS AND TECHNIQUES

Course Overview:

This course is designed to explore various methods of improving the efficiency and performance of SAS programs. General programming practices are discussed, as well as specific features of the SAS System that can be useful in improving the performance of SAS programs.

Course Objectives:

Upon completion of this course, attendees should have:

- an understanding of features of the SAS System that can affect performance
- an understanding of programmer style issues that can affect program performance
- an introduction to various techniques that can be useful in improving SAS programs

Prerequisites:

Basic understanding of the SAS System and SAS programming.

Course Length:

One day

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INTRODUCTION TO SAS/GRAPH®

Course Overview:

This course is designed to introduce the attendee to SAS/Graph software. It reviews the syntax and usage for the various components that comprise SAS/Graph.

The primary areas of emphasis are

- Global Options that affect graphics and printing
- SAS Procedures to create Charts, Plots, Maps, and Graphics Text
- The Annotate Facility
- Use of GREPLAY to manage graphics catalogs

Course Objectives:

Upon completion of this course, attendees should have:

- an understanding of the use of SAS/Graph software
- the ability to create various SAS charts, plots, and maps
- the ability to store SAS/Graph pictures in catalogs

Prerequisites:

Basic understanding of the SAS System and SAS programming.

Course Length:

Two days - Lecture only

Three days - Hands On workshop

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SAS® SCREEN CONTROL LANGUAGE

Course Overview:

This course is designed for the experienced SAS user who wants to develop applications and interactive menu-driven systems using SAS/AF® and SAS/FSP® software. The course introduces attendees to the BUILD procedure for creating menu-based applications and the AF command for displaying applications.

No prior knowledge of Screen Control Language, SAS/AF, or SAS/FSP is required.

The components of SAS/AF and Screen Control Language instructions are taught through the development of a menu-driven application.

Course Objectives:

Upon completion of this course, attendees should have:

- an understanding of SAS/AF® and SAS/FSP® software
- an understanding of Screen Control Language commands and syntax
- ability to use the BUILD procedure to create a menu-based application
- ability to develop an application that interacts with the user and responds accordingly

Prerequisites:

Knowledge of SAS programming and syntax.

Ability to create and manage SAS data sets and data libraries.

No knowledge of SAS/AF, SAS/FSP or Screen Control Language is needed.

Course Length:

Two days

JADE Tech, Inc.

ADVANCED SCL TECHNIQUES

Course Overview:

This course is intended for the experienced SAS Screen Control Language programmer. It introduces various new features of SAS/SCL with an emphasis on techniques that might be useful for more efficient SCL coding

Course Objectives:

Upon completion of this course, attendees should have:

- an understanding of newer features of the SAS Screen Control Language
- an understanding of the use of SCL Lists
- an understanding of the use of Method Blocks
- an understanding of data driven configuration techniques

Prerequisites:

Intermediate to Advanced level understanding of SAS Screen Control Language

Course Length:

One day

JADE Tech, Inc.

CONNECTING WITH YOUR DATA

Course Overview:

This course is designed for the more advanced SAS user. It explores the use of Dynamic Data Exchange (DDE) and Open DataBase Connectivity (ODBC) to exchange information between the SAS System and non-SAS applications such as Excel and Lotus 1-2-3. The course is presented using SAS in a Microsoft Windows environment, and demonstrates the use of SAS as both a client and a server of data.

Course Objectives:

Upon completion of this course, attendees should have:

- an understanding of the client / server environment in Microsoft Windows
- an understanding of Dynamic Data Exchange (DDE) and SAS support of a DDE link
- an understanding of Open DataBase Connectivity
- an understanding of the use of SAS as both an ODBC client and an ODBC server

Prerequisites:

Basic understanding of the SAS System and the Windows operating environment

Course Length:

One day

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INTRODUCTION TO SQL USING SAS®

Course Overview:

This course is designed as an introductory course for the SAS user with no knowledge of Structured Query Language (SQL). It is designed to introduce the attendee to the syntax and structure of SQL, with particular emphasis on using SQL within the SAS System.

Using SQL, attendees will learn how to:

- extract information
- analyze data
- create reports
- update data

In addition, attendees will learn how to use the SAS Query Window and the SQL Procedure Pass-Thru Facility.

Course Objectives:

Upon completion of this course, attendees should have:

- an understanding of the syntax and structure of SQL queries
- an understanding of how to use SQL to solve common data problems
- an introduction to the SAS Query Window
- an introduction to the SQL Procedure Pass-Thru Facility

Prerequisites:

Basic understanding of the SAS System and SAS programming.
No knowledge of SQL is assumed.

Course Length:

Two days - Lecture only
Three days - Hands On workshop