

Programming essentials 1:

- Introduction
- Getting Started with the SAS System
- Getting Familiar with SAS Data Sets
- Working on report generation
- Enhancing Output
- Importing data to SAS
- Creating SAS Data Sets
- DATA Step Programming
- Combining SAS Data Sets using different methods
- Producing Summary Reports
- SAS Graphical Representation

Programming essentials 2:

- Introduction
- Descriptive Statistical Measures
- Probability Distributions
- Data Modeling
- Controlling Input and Output
- Summarizing Data
- Statistical sampling
- Reading and Writing Different Types of Data
- Data Transformations
- Debugging Techniques (Self Study)
- Processing Data Iteratively
- Combining SAS Data Sets

SAS SQL essentials:

- Introduction
- Basic queries
- Writing complex queries
- Creating ,modifying and updating tables
- Use of outerunion corresponding method
- Overview of tables and column Names

Macro passing facility:

- Introduction to the Macro Facility
- SAS Programs and Macro Processing
- Macro Variables
- Macro Processing
- Scopes of Macro Variables
- Macro Expressions
- Macro Quoting
- Interfaces with the Macro Facility
- Storing and Reusing Macros
- Macro Facility Error Messages and Debugging
- Data Cleaning Techniques