CLINICAL STUDY ACADEMY

By- Subham Singh

Website
LinkedIn Page
clinicalstudyacademy1@gmail.com

Introduction

- > Introduction of SAS software.
- Industries using SAS
- > Why SAS and why not R or Python
- SAS access and Installation
- > Introduction to SAS Windows.

Data & Library

- > Types of Data
- Overview of SAS Data Sets.
- Basic rules in SAS
- Library & Types of Libraries.
- Creating and managing SAS Libraries.
- Referencing SAS files.
- Working of PDV

******* Base SAS Topics *********

Creation database from raw data

- > Steps to create a SAS dataset.
- Creating SAS dataset using text file.
- Creating SAS dataset using text file with delimiters.
- Creating SAS dataset using Excel file.
- Creating Raw Datasets using various input methods.
- Use of INFILE Statement and Its options
- Output Delivery System (ODS)
- Output of ODS in different format.

Functions

- Character function
- Concatenation function
- Numerical function
- Mathematical function
- ➤ Date & Time Function

AL STUDY ACADEMY

Combining the datasets

- Horizontal
- Vertical

Loops in SAS: Do Loops

- Iterative Do Loop
- Conditional Do Loop



Array

- Definition of array
- > Example of array

Procedures

- > Procedure Means.
- Procedure Freq.
- Procedure Format.
- Procedure Transpose.
- Procedure Import.
- Procedure Export.
- Procedure Contents.
- Procedure Report.
- Procedure Append.
- Procedure Compare.
- Procedure Datasets.
- Procedure Chart.

******* Advanced SAS Topics *********

Proc SQL

- Introduction to Proc SQL Statements.
- Functions in Proc SQL.
- Creating Datasets using different methods.
- Conditional Processing in Proc SQL.
- SQL Joins.
- Compare solving a problem using the SQL procedure versus using traditional SAS programming techniques.

Macro

- > Create and use user-defined and automatic macro variables within the SAS Macro Language.
- Ways to Create macro.
- > Difference between Positional Parameters and Keyword Parameters.
- Automate programs by defining and calling macros using the SAS Macro Language.
- Understand the use of macro functions.
- How to debug SAS Macros.
- ➤ How to call SAS Macro from External Location.



Introduction of SAS and Clinical research

- > SAS role in Clinical Research.
- Clinical Trial Phases
- Protocol in Clinical Research
- Case Report Form (CRF) and Annotated- Case Report Form (aCRF)?
- ➤ Introduction to Specification (SDTM-Spec & ADaM-Spec)
- Statistical Analysis Plan (SAP) and its purpose

CDISC Standards

- Introduction to CDISC
- CDISC Standards for Statistical Programmer
- Study Data Tabulation Model (SDTM)
 - o Introduction to SDTM
 - o SDTM Implementing Guideline
 - SDTM Datasets
 - Study Data Reviewer's Guide (SDRG)
- Analysis Data Model (ADaM)
 - o Introduction to ADaM
 - ADaM Implementing Guideline
 - ADaM Datasets
 - Analysis Data Reviewer's Guide (ADRG)
- > Table, Listing
- Describe contents and purpose of define.xml

Project-work

- Description to project
- Creation of SDTM datasets
- Creation of ADaM datasets
- Tables and Listings

****** Additional Activities ********

LINICAL STUDY ACADEMY

Activities List

- Sessions to Improve Communication skills.
- > Tips to clear an Interview
- Common Interview questions and answers
- SAS Interview Questions and Answers
- Resume Building Guide
- Statistical Programmer Role & Responsibility from fresher to vice-president
- How to effectively apply for Jobs.
- Regular Doubt clearing sessions.
- Global SAS Certification Exam Preparation.
- Tracker for monitoring progress

