



COMPREHENSIVE TRAINING & CERTIFICATION IN **CLINICAL SAS**

**Combined Package of Base & Advance
SAS with Clinical SAS project work**

**A Value-added Certificate Course
for Academic Institutions**

Commencing From January 14, 2024



About the Curio

Curio Training and Research Institute (CTRI) is the Constituent Unit of CliMed Research Solutions India, dedicated to providing Pharma and Healthcare Industry Training. Curio is established to transform the pharma and healthcare landscape by nurturing talent, fostering innovation, and driving excellence in these critical sectors.

Curio commits to producing professionals well-versed in theory and equipped with practical skills to lead, innovate, and create positive change. Curio provides industry-oriented value added, skill development courses, corporate training, and career consultation to individuals and institutions/universities.

What is SAS?

SAS is a statistical analysis software. Which is a statistical tool where we can do any statistical analysis on a large data. Originally used for agricultural data is now spread its wings in the Insurance, Banking and Clinical sectors.

SAS was developed at North Carolina State University from 1966 until 1976, when SAS Institute was incorporated.

Coming to the clinical sector or clinical research, the FDA uses SAS datasets only. It recognizes only SAS format. So, for clinical research and statistics the analysis datasets and final reports are to be presented and submitted in the SAS format. Hence there is a great demand and scope for learning clinical SAS.

Where to begin in order to become a clinical SAS Programmer?

In order to reach a level where we can understand the clinical SAS programming, we need a basic understanding of how SAS works and what are some of the basic programming skills needed. We at CliMed are right now focusing on the SAS Base programming along with project work and real time scenario learning with our certified SAS Base experts who are currently working in the industry.

What is clinical SAS?

SAS has many applications like in the Automobile industry, Insurance, Finance, Banking etc. Similarly, the application of SAS base and Advance in the Clinical sector is Clinical SAS and it includes SDTM, AdaM and TLFs which are used to store, analyze and present the clinical data.

Eligibility

1. Anyone who is interested in SAS or Clinical Research or is trying to get into Clinical SAS.
2. Preferred to Medical, Pharmacy and other life sciences students & professionals
3. A basic understanding of statistics is an advantage but not mandatory.

Course Highlights

We at CliMed have one of the best in industry to provide live projects that will boost your confidence and give you an opportunity to get real time scenarios so that you can kick start your career as a Clinical SAS programmer.

Exclusive SAS learning for Clinical & other Purposes

Combined package of Base & Advance SAS with Clinical SAS project work

**Live classes
(Recordings available on demand)**

Hands-on practice through assignments & cases

SAS practice software installation.

Course Syllabus

Phase – 1 (Base SAS Topics)

01. Introduction

- a. SAS-Functionality
- b. Turning Data into Information
- c. Rules of SAS Program
- d. SAS Names & Rules to Write SAS Names
- e. Data Types
- f. How SAS Reads the Data into Variables
- g. Ways to Clean Windows
- h. SAS Program
- i. Ways We Can Read Data into SAS
- j. How to Create Library
- k. Data Step Process

02. Data Statement

- a. Data Step
- b. Purpose of Data Step
- c. Various Data Statement

03. Infile statement

04. Input statement

05. Attributes

06. Conditional statements

07. Combining datasets

08. Functions

09. Other statements

10. Procedures (Proc)

Phase – 2 (Advance SAS Topics)

01. Macros

02. Create & use user-defined & automatic macro variables within the SAS Macro Language.

03. Automate programs by defining and calling macros using the SAS Macro Language.

04. Understand the use of macro Quoting functions

05. Macro Debugging Options

Phase – 3

(SAS Clinical Programming)

01. Introduction of SAS and Clinical research

- a. SAS role in Clinical Research.
- b. What is Clinical trial?
- c. What is Protocol and role of Protocol in Clinical Research?
- d. Which is playing main role in Clinical Research?
- e. Clinical Trials Data Structures
- f. Identify the classes of clinical trials data (demographic, lab, baseline, concomitant medication, etc.).
- g. Identify key CDISC principals and terms.

02. CDISC SDTM data model

- a. SDTM Mapping Process
- b. DESIGN AND IMPLEMENTATION
- c. SAS Program for NON SDTM to SDTM

03. Statistic and Report Clinical Trials Results

Note: The syllabus listed is indicative in nature and may include more topics for comprehensive learning.

Course Duration

5 – 6 Months
6 hours/week learning

Course Commencement –

January 14, 2024

Last Date for Registration –

January 07, 2024

Course Delivery

Virtually by Zoom/Google meet

Schedule -

Classes will be conducted on weekends (Saturday and Sunday) in convenient evening hours.



Exam and Assignments

There will be a final exam and assignment at the end of SAS Base course. Students have to complete the assignments as per their convenient within 45 days of the last class.



Certificate

- Certificate will be given to all the participants on the completion of all the assignments
- 75% of the classes must to attend (Live or Recorded)

For institutions:

Contact us on +91-9380436185 or mail us at admissions@curioctri.com

Course Fee

~~INR 30,000/-~~

INR 14,999

(50% Institution Introductory Discount)

Registration Link:

<https://rzp.io/l/CSASC>



*"Fee in Instalments" Options are Available, Contact us on +91-9380436185 or mail us at admissions@curioctri.com

Course Convener

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