

# Upskill From SAS® to R for Clinical Programming



atorus  
academy

Atorus Academy offers eLearning and live training to teach clinical programmers of any level and background the best methodologies for utilizing open-source within the highly regulated clinical environment. Trainings use CDISC datasets allowing for a more simplistic knowledge transfer for the trainee.

## Introductory Trainings

### Introduction to R

#### SAS® to R

Use SAS® and R code side-by-side to learn how to replicate PROC SORT, PROC TRANSPOSE, DROP, KEEP, IF/ELSE, and more with R

#### tidyverse for Clinical Programming

Discover the key tidyverse functions you can use in day-to-day clinical programming

### Creating Datasets in R

#### SDTM and ADaM Programming Techniques

Learn to use base R and tidyverse functions to program SDTM and ADaM datasets

#### Programming SDTMs With sdtm.oak

Explore what the sdtm.oak package is and how you can use it to streamline your SDTM programming.

#### Programming ADaMs With admiral

Explore what the admiral package is and how you can use it to streamline your ADaM programming

## Supplemental Trainings

### Introduction to R for

#### Statistical Programming

Explore side-by-side translations of SAS® and R code to learn the basics of using R for statistical analysis. Replicate PROC REG, PROC TTEST, PROC GLM, and more

### Beyond the Basics of

#### R Programming

Learn intermediate concepts of the R programming language including how R works, how to create functions, and how to program in R effectively

### Creating Tables in R

#### Building Clinical Summaries With Tplyr

Uncover the Tplyr package and see how it can be utilized to eliminate redundant table programming

#### Producing Styled Tables

See how you can use the clinify package to style and output your tables

### Creating Figures in R

#### Building Clinical Summaries With ggplot2

Learn how the ggplot2 package makes programming clinical figures simple, including line plots, scatter plots, and more

### Post Course Assignment

#### Practice Programming

Apply what you learned and practice programming datasets and displays from start to finish

### Developer Workflows

Discover best practices for collaborative development with an introduction to GitHub, Posit Workbench, Posit Package Manager, and managing projects with Git version control

### AI for Programming

Learn the basics of leveraging AI for R programming and be introduced to using AI to program in R with greater accuracy and efficiency

## Learn Your Way

30+  
Hours

### eLearning

Topic specific instructional videos

Quizzes with feedback

Executable exercises

20+  
Live Sessions

## Live Instructor Training

### Interactive Lectures

Engage with experts in real-time discussions

### Hands-on Exercises

Apply learning through guided coding sessions

### Resource Materials

Access to practice files and session handouts

## Elevate your R programming skills with Atorus Academy

We're your open-source and clinical programming learning headquarters. Join us to build your toolbox and stay ahead in the field of clinical data analysis.

MAKE YOUR DATA INSIGHTFUL



atorus

Your Complete Data Solution