

Automation with Simcenter Simlab

OEM: Siemens • Code: ILT110104

COURSE DESCRIPTION

This live training demonstrates how to automate repetitive modeling and simulation tasks in SimLab by recording manual workflows as parameterized Python scripts, even without prior programming experience. These scripts enable efficient batch processing across different designs, minimizing manual effort.

AUDIENCE PROFILE

- This course is designed for beginners with little or no experience in programming. It is ideal for students, career changers, or professionals looking to expand their skills in finite element analysis.

PREREQUISITES

- Getting Started with Simcenter Simlab (WEBNA27)
- Linear Static and Linear Dynamic Analysis with Simcenter Simlab (ILT110063)
- Meshing for Structural Analysis with Simcenter Simlab (ILT110064)
- A computer with internet access and the installation of the latest version of Simcenter Simlab and appropriate license
- General knowledge of Simcenter Simlab required

COURSE OBJECTIVES

By the end of this course, participants will be able to:

- This section doesn't contain any content.

COURSE OUTLINE

Module 1: Course Outline

- Recording, editing, and managing macros to capture processes in Simcenter Simlab
- Defining and using design and process parameters for flexible model control
- Applying color codes, groups/publications, and reusable templates to structure models efficiently
- Running scripts automatically, interactively, or in batch mode
- Performing design of experiments (DOEs), mesh convergence studies, and customizing the user interface with GUI elements for scripts