SIMIT in Discrete Automation Technology for Beginners

OEM: Siemens • Code: DI-SIMITFA

COURSE DESCRIPTION

SIMIT enables the comprehensive simulation of machine and plant behavior for virtual commissioning. With the help of the components integrated in SIMIT, you can test your PLC code to thereby produce the highest quality and establish your new products on the market much faster.

AUDIENCE PROFILE

- Project managers
- Project workers
- Programmers
- Configuration engineers

PREREQUISITES

- Basic knowledge of automation technology
- Practical experience in SIMATIC TIA Portal configuration, equal to the courses TIA-PRO2 of TIA-SYSUP
- Technical requirements

Note

- Included in the course price: Free access to the digital learning platform SITRAIN access – starting one week before the start of the course until two weeks after the end of the course.
- With the Learning Membership, you can deepen or repeat the content of this Learning Event as well as continue your education on other interesting topics.

COURSE OBJECTIVES

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

- This course gives you an overview of the functions and libraries of the SIMIT simulation software.
- Using practical examples, you will learn step-by-step how to design simulations/models for testing automation software.
- The perfect interaction of all components integrated in SIMIT enables you to sustainably produce more with top quality and establish your new products on the market much faster.
- After attending the course, you will be able to:
- Create your own components and templates
- Create a simulation for the PLC Programm

- Set up the couplings between the simulation in SIMIT and PLCSIM Advanced

COURSE OUTLINE

Module 1: Content

- Introduction to SIMIT
- Introduction to Digital Twin
- General information about SIMIT
- Representation of the three simulation levels and how they work
- Simulating signal, device and process levels
- Connection to PLCSIM Advanced
- Connection to NX MCD
- Creating your own components with the Component Type Editor
- Creating templates and effective engineering through import functions
- Working with the CONTEC library provided by SIMIT