

SIMATIC System Retraining Course for SIMATIC S7-1500 in TIA Portal

OEM: Siemens • Code: TIA-SYSUP

COURSE DESCRIPTION

This course covers Content.

AUDIENCE PROFILE

- Programmers
- Commissioning engineers
- Engineering personnel
- Service personnel

PREREQUISITES

- SIMATIC S7 knowledge according to ST-PRO1 and practical experience in using the knowledge
- You can use the available online entry test to ensure that the selected course matches your area of expertise (Online Assessment Test)
- Technical requirements: VLab
- In this course you will work with SIMATIC S7-1500 and software SIMATIC STEP 7 based on TIA Portal.
- The Learning Membership starts 7 days before the start of the course and ends 14 days after the end of the course. During this period, you have access to all of the more than 480 web-based trainings available.

COURSE OBJECTIVES

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

- Efficiently use the "TIA Portal" engineering platform
- Configure and program components of the SIMATIC S7-1500 automation system with the TIA Portal
- Perform a commissioning of TIA components
- You will deepen your theoretical knowledge through numerous practice-oriented exercises in our virtual exercise environment on a TIA plant model. This consists of a SIMATIC S7-1500 automation system, Comfort Panel TP700 and a virtual conveyor belt model.

COURSE OUTLINE

Module 1: Content

- Engineering tools TIA Portal components: SIMATIC STEP 7 and SIMATIC WinCC
- Introduction of the SIMATIC S7-1500 hardware
- Configuration of devices and networks of the SIMATIC S7 system family using SIMATIC S7-1500 as an example
- Working with the PLC Tag Table in TIA Portal
- Program blocks and editor
- Advanced programming possibilities of a SIMATIC S7-1500
- Troubleshooting with TIA Portal tools and the SIMATIC S7-1500 CPU display
- Presentation of the Structured Control Language (SCL) editor
- Presentation of the SIMATIC WinCC operator control and monitoring system
- Migration of a SIMATIC STEP 7 V 5.x project to SIMATIC STEP 7 based on TIA Portal
- Adaption of a SIMATIC S7-300/400 program to the SIMATIC S7-1500
- Consolidation of the content through practice-oriented exercises in the virtual exercise environment