

Migrazione da SIMATIC STEP 7 V5.x a TIA Portal con SIMATIC S7-1500 (TIA-SYSUP)

Short Description

The Totally Integrated Automation Portal (TIA Portal) forms the work environment for integrated engineering with all automation devices: controller, operator panel and drives. In this course you will learn about the major differences between SIMATIC S7-300/400 and SIMATIC S7-1500, the engineering tools SIMATIC Manager and TIA Portal, as well as SIMATIC STEP 7 V5.x and SIMATIC STEP 7 (TIA Portal). You will learn the possibilities of the configuration and the advanced programming of a SIMATIC S7-1500 automation system with the TIA Portal engineering platform.

Objectives

After attending the course, you can:

- 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

Target Group

Programmers
Commissioning engineers
Engineering personnel
Service personnel

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
 - Working with the PLC Tag Table in TIA Portal
 - Program blocks and program 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 V5.x project to SIMATIC STEP 7 (TIA Portal)
 - Adaption of a SIMATIC S7-300/400 program to the SIMATIC S7-1500
 - Presentation of the SINAMICS Startdrive engineering tool with interfacing to a SINAMICS G120 drive
- Theoretical knowledge will be deepened with numerous practical exercises on a TIA system model. This consists of a SIMATIC S7-1500 automation system, a SIMATIC ET 200 distributed I/O, a SIMATIC WinCC Advanced operator control, drive SINAMICS G120 and a conveyor model.

Prerequisites

Good theoretical and practical knowledge of SIMATIC S7 automation systems.

Note

This course is also available in Virtual Classroom mode: E-TIASYSUP.

At the end of the course you can deepen the topics covered through our **SIE-learning 4.0**: SIE-MIG, SIE-VARNT, SIE-PSIMAD, SIE-OPCUA.

In this course, the SIMATIC S7-1500 automation system and the SIMATIC STEP 7 (TIA Portal) software are used; MICRO1 and MICRO2 courses are available for the SIMATIC S7-1200 automation system.

Type

Face-to-face training

Duration

4 days

Language

it