

SIMATIC System-Umsteigerkurs auf SIMATIC S7-1500 in TIA Portal (TIA-SYSUP)

Short Description

The Totally Integrated Automation Portal (TIA Portal) forms the work environment for integrated engineering with all automation devices – controller, HMI 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 STEP 7 V5.x and STEP 7 based on 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

You can deepen your theoretical knowledge with numerous practical exercises on a TIA system model. This consists of a SIMATIC S7-1500 automation system, ET200 distributed I/O, Touchpanel, drive, and a conveyor model.

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 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
Presentation of the 'Startdrive' engineering tool with interfacing to a SINAMICS G120 drive
Deeper understanding of contents through practical exercises on the SIMATIC S7-1500 system model

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](#)

Note

In this course you will work with SIMATIC S7-1500 and software SIMATIC STEP 7 based on TIA Portal.

Type

Face-to-face training

Duration

5 days

Language

de