

SIMATIC System Retraining Course for 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 thepossibilities 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

en