

SIMATIC TIA Portal system retraining course for SIMATIC S7-1500 / SIMATIC S7-1500 与 TIA Portal1 (TIA 博途) 升级课程 (A7816)

Objectives

- 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. 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.
- 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, configuring engineers, Service personnel, Operators, users, Maintenance personnel

Content

- Engineering tools TIA Portal components: SIMATIC STEP 7 and SIMATIC WinCC
- Introduction to 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 SIMATIC S7-1500
- Troubleshooting with TIA Portal tools and the SIMATIC S7-1500 CPU display
- Introduction to the WinCC operator control and monitoring system
- Introduction to the Structured Control Language (SCL)
- Migration from SIMATIC STEP7 V5.x projects to TIA Portal STEP7 projects
- Integration and commissioning of G120 drives using Startdrive as the engineering configuration tool
- Deeper understanding of contents through practical exercises on the SIMATIC S7-1500 system model

Prerequisites

Basic knowledge of automation technology, S7-300/400 PLC programming

Type

Face-to-face training

Duration

5 days

Language

en, zh

Fee

7,800 CNY