

SIMATIC S7-1200 advanced course (TIA-MICRO2)

Short Description

You can deepen your theoretical knowledge with numerous practical exercises on a TIA system model. This consists of a SIMATIC S7-1200 automation system, ET 200 distributed I/O, Touchpanel, drive, and a belt model.

Objectives

The Totally Integrated Automation Portal (TIA Portal) forms the work environment for integrated engineering with SIMATIC STEP 7 Basic and SIMATIC WinCC Basic.

The second part of the SIMATIC S7-1200 training is based on the knowledge of the TIA Portal gained in the SIMATIC S7-1200 basic course, including SIMATIC STEP 7 Basic and HMI. You will expand your knowledge of programming in SCL, connecting drives, use of the TIA Portal diagnostic tools for clearing hardware faults and software errors, and PROFINET IO. You will also learn about the technology functions of the PID controller and drive functions that are offered by the SIMATIC S7-1200. You will thus be able to adapt your plant to new demands.

After attending the course, you can do the following:

- Set up SIMATIC S7-1200 PROFINET IO networks
- Understand the interaction of TIA components
- Perform specific commissioning of TIA components
- Use the PID controller technology functions and drive functions of the SIMATIC S7-1200
- Systematically diagnose and correct hardware and software errors in the SIMATIC S7-1200 automation system with the diagnostic tools of the TIA Portal engineering portal
- Create simple programs in the programming languages LAD, FBD, and SCL

Target Group

Programmers
Commissioning engineers
Engineering personnel
Maintenance personnel
Service personnel

Content

Hardware diagnostic functions of the TIA Portal in the SIMATIC S7-1200 automation system
Software diagnostic functions of the TIA Portal in the SIMATIC S7-1200 automation system
Possible applications of various block types (FC, FB, OB, DB)
Presentation of the SCL programming language
Commissioning of distributed I/O on PROFINET IO
Commissioning of a WinCC project
PID controller technology functions and drive functions
Deeper understanding of contents through practical exercises on SMATIC S7-1200 system model

Prerequisites

SIMATIC S7-1200 knowledge corresponding to TIA-MICRO1

You can use the available online entry test to ensure that the selected course matches your area of expertise.

This blended learning course combines web-based training (WBT) on the Internet with a 3-day attendance course: To prepare for the classroom course, you will receive the WBT "PROFINET". This allows you to improve your personal learning achievement in the attendance course.

Note

None

Type

Face-to-face training

Duration

3 days

Language

en