

TIA-MICRO1 – Basic course on Simatic S7-1200 controllers / К у р с TIA-MICRO1 (S7-1200) (TIA-MICRO1)

Short Description

The Totally Integrated Automation Portal (TIA Portal) for SIMATIC S7-1200 forms the work environment for integrated engineering with SIMATIC STEP 7 Basic and SIMATIC WinCC Basic. In this first part of the SIMATIC TIA Portal S7-1200 training, we teach you the handling of the TIA Portal, basic knowledge about the structure of the SIMATIC S7-1200 automation system, configuration and parameterization of hardware, and the basics of programming. You will learn how to clear simple hardware faults and software errors in the SIMATIC S7-1200 automation system and to create, modify and expand small STEP 7 programs. You will thus be capable of reducing downtime. You will also get an overview on operator control and monitoring. After attending the course, you can do the following: Understand the fundamentals of the interaction of the SIMATIC S7-1200 with an operator control and monitoring device. Reliably operate the "TIA Portal" engineering platform Create, change, and expand small STEP 7 programs Configure, parameterize, and exchange SIMATIC S7-1200 modules Diagnose and fix simple hardware faults using the wiring test Diagnose and fix simple program errors using the status block Perform simple commissioning of the SIMATIC S7-1200

Target Group

Programmers

Content

- Overview and significant performance characteristics of the SIMATIC S7-1200 system family
- The components of the TIA Portal: SIMATIC STEP 7 Basic and WinCC Basic
- Program execution in automation systems
- Binary and digital operations in the function block diagram (FBD)
- Setup and assembly of the SIMATIC S7-1200 automation system
- Addressing and wiring the signal modules
- Hardware and software commissioning of the SIMATIC S7-1200 with the TIA Portal
- SIMATIC S7-1200 hardware configuration and parameterization
- Introduction to the Touchpanel
- Saving and documentation of the implemented program changes with the TIA Portal
- Deeper understanding of contents through practical exercises on SIMATIC S7-1200 system model

Prerequisites

Basic knowledge of automation technology

Type

Face-to-face training

Duration

4 days

Language

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