

TIA-PR01 – System course with a new software package of TIAPortalV13 / К у р с ТИА-PR01 (TIA-PR01)

Short Description

The Totally Integrated Automation Portal (TIA Portal) forms the work environment for integrated engineering with SIMATIC STEP 7 and SIMATIC WinCC. In this first part of the SIMATIC TIA Portal programming training, we teach you the handling of the TIA Portal, basic knowledge about the structure of the SIMATIC S7 automation system, configuration and parameterization of hardware, and the basics of standard PLC programming. You also receive an overview of HMI, PROFINET IO, and connecting drives. After attending the course, you can do the following: Understand the fundamentals of interaction of the TIA components Solve simple programming tasks using elementary STEP 7 instructions Reliably operate the "TIA Portal" engineering platform Program simple plant functions with basic STEP 7 instructions in the ladder diagram (LAD) or function block diagram (FBD) Perform simple commissioning of TIA components

Target Group

Programmers

Content

- Overview and significant performance characteristics of the SIMATIC S7 system family
- The components of the TIA Portal: STEP 7, WinCC, communication
- Program execution in automation systems
- STEP 7 block types and program structuring
- Binary and digital operations in the function block diagram (FBD)
- Programming of parameterizable blocks
- Data management with data blocks
- Programming organizational blocks
- Test tools for system information, troubleshooting, and diagnostics
- Hardware configuration and parameterization of the SIMATIC S7 modules, a PROFINET IO system (ET-200), a Touch Panel, and a drive
- Program documentation and saving
- Deeper understanding of contents through practical exercises on the SIMATIC S7-1500 system model

Prerequisites

Basic knowledge of automation technology

Note

In this course you will work with SIMATIC S7-1500 and software SIMATIC STEP 7 based on TIA portal — for SIMATIC S71-1200 we offer the trainings TIA-MICRO1/2

Type

Face-to-face training

Duration

5 days

Language

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