

Online-Training: SIMATIC S7-1500 TIA Portal Program 1 / Online-Kurs: SIMATIC S7-1500 TIA Portal Pogram 1 (TIA-PRO1)

Short Description

In this live online course, you will receive a basic level training in Simatic Manager and its Simatic S71500 PLC.Hardware configuration

Objectives

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

You can deepen your theoretical knowledge with numerous practical exercises on a TIA system model. This consists of a SIMATIC S7-1500 automation system, ET200SP distributed I/O, Touchpanel TP700, drive SINAMICS G120 and a belt model.

Target Group

Programmers

Commissioning engineers

Engineering personnel

Content

System overview TIA Portal, SIMATIC WinCC (SCADA)

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

Type

Online-Training

Duration

5 days

Language

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Fee

4,550 TRY

(price without 18% VAT)