

Online-Training: SIMATIC S7-1500 TIA Portal Program 2 / Online-Kurs: SIMATIC S7-1500 TIA Portal Program 2 (TIA-PRO2)

Short Description

In this live online course, you will receive an advanced 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. The second part of the SIMATIC TIA Portal programming training is based on the knowledge of the TIA Portal gained in the SIMATIC S7 TIA Portal programming 1 course, including STEP 7, SIMATIC S7, HMI, connection of drives, and PROFINET IO. You will expand your knowledge of complex operations and you get an introduction in the programming language statement lists (STL) and Structured Control Language (SCL). Along with analog value processing and data administration with complex data types, the evaluation and handling of program-related errors are also considered. Building on this, you will learn how to display messages on the operator control and monitoring system (HMI). Thanks to the knowledge imparted, you will gain new impetus and ideas for efficient PLC programming. After attending the course, you can do the following: Understand the interaction of TIA components Apply classical program development methods Solve comprehensive programming tasks Program advanced functions such as indirect addressing in STEP 7 statement lists (STL) and in Structured Control Language (SCL) Implement data administration with the SIMATIC S7 automation system Apply system blocks along with blocks from the standard STEP 7 library Program classical software error handling and evaluation Configure alarms of the operator control and monitoring system (HMI) Configure TIA system components consisting of SIMATIC S7, HMI, PROFINET IO, and drive

Target Group

Programmers Commissioning engineers Engineering personnel

Content

Tools for program creation (e.g. structograms) Analog value processing Functions, function blocks, and multi-instances using the IEC-compliant timer/counter as an example (International Electro technical Commission) Jump commands and battery operations Indirect addressing Classical software error handling and evaluation with error organization blocks (OBs) Evaluation of diagnostic data Troubleshooting and alarms with an HMI device (Touchpanel) Introduction into Structured Control Language (SCL) and S7-GRAPH Deeper understanding of contents through practical exercises on SIMATIC S7-1500 system model

Prerequisites

SIMATIC S7 knowledge corresponding to TIA-PRO1 and practical experience in using the knowledge 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 5-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.

Type

Online-Training

Duration

5 days

Language

tr

Fee

6,875 TRY
(price without 18% VAT)