

SIMATIC S7 TIA Portal - Aggiornamento per personale di manutenzione (TIA-INSTUP)

Short Description

Totally Integrated Automation Portal (TIA Portal) is the work environment for a consistent engineering of all automation devices – controllers, HMIs and drives. In this course you will learn about the main features of SIMATIC S7-1500, the Engineering Tool - SIMATIC TIA Portal (STEP 7, WinCC, Startdrive). You will become familiar with the tools of the SIMATIC S7-1500 automation system with the engineering platform "TIA Portal" for troubleshooting and for testing/debugging.

Objectives

After taking part in the course you will:

- Be able to use the "TIA Portal" engineering platform efficiently for troubleshooting and for testing
- Understand simple STEP 7 programs
- Be able to carry out firmware updates for the components of SIMATIC S7-1500
- Be able to save/backup and download the data of the CPU, HMI Panel and G120

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

- Maintenance personnel
- Operators

Content

- Introduction to Engineering Tools TIA Portal: SIMATIC STEP 7 and SIMATIC WinCC
- Presentation of the SIMATIC S7-1500 hardware
- Save/backup, download, archive data from the CPU, the TP und the G120
- Introduction to PLC programming
- Commissioning of devices and PROFINET networks of the SIMATIC S7 system family
- Troubleshooting with TIA Portal tools and the SIMATIC S7-1500 CPU-Display
- Presentation of the SIMATIC WinCC operating and monitoring system
- Presentation of the "Startdrive" engineering tool with connection of a SINAMICS G120 drive
- Deeper understanding of contents through practical exercises on SIMATIC S7-1500 system model

Prerequisites

STEP7 knowledge equal to ST-SERV1

Type

Face-to-face training

Duration

4 days

Language

it