

TIA Portal System Upgrade Course (TIA-SYSUP)

Short Description

TIA Portal System Upgrade Course

Objectives

Aims and Objectives

The Totally Integrated Automation Portal (TIA Portal) forms the work environment for integrated engineering with all automation devices controller, HMI and drives.

In this course you will learn about the major differences between SIMATIC S7-300/400 and SIMATIC S7-1500, the engineering tools SIMATIC Manager and TIA Portal, as well as STEP 7 V5.x and STEP 7 based on TIA Portal. You will learn the possibilities of the configuration and the advanced programming of a SIMATIC S7-1500 automation system with the "TIA Portal" engineering platform. You can deepen your theoretical knowledge with numerous practical exercises on a TIA system model. This consists of a SIMATIC S7-1500 automation system, ET200 distributed I/O, Touch panel, and drive.

Content

Engineering tools TIA Portal components: SIMATIC STEP 7 and SIMATIC WinCC

Introduction of the SIMATIC S7-1500 hardware

Configuration of devices and networks of the SIMATIC S7 system family using SIMATIC S7-1500 as an example

Working with the PLC Tag Table in TIA Portal

Program blocks and editor

Advanced programming possibilities of a SIMATIC S7-1500

Troubleshooting with TIA Portal tools and the SIMATIC S7-1500 CPU display

Presentation of the Structured Control Language (SCL) editor

Presentation of the SIMATIC WinCC operator control and monitoring system

Migration of a SIMATIC STEP 7 V 5.x project to SIMATIC STEP 7 based on TIA Portal Adaption of a SIMATIC S7-300/400 program to the SIMATIC S7-1500

Migration of a SIMATIC WinCC flexible project to SIMATIC WinCC based on TIA Portal

Presentation of the "Startdrive" engineering tool with interfacing to a SINAMICS G120 drive

Deeper understanding of contents through practical exercises on the SIMATIC S7-1500 TIA system model

Prerequisites

Completion	of the	classic	ST-7PRO1	course

Type

Online-Training

Duration

5 days

Language

en

Fee

21,040 ZAR

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