

SIEMENS TIA PORTAL SYSTEM UPGRADE

COURSE SPECIFICATIONS

Course Code: TIA-SYSUP

Course Length: 5 Days

PRE-REQUISITES

Completion of the classic ST-7PRO1 course.

COURSE 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.

LEARNING OUTLINE

1. Engineering Tools TIA Portal Components: SIMATIC STEP 7 and SIMATIC WinCC
2. Introduction of the SIMATIC S7-1500 Hardware
3. Configuration of Devices and Networks of the SIMATIC S7 System Family Using SIMATIC S7-1500 as an Example
4. Working with the PLC Tag Table in TIA Portal
5. Program Blocks and Editor
6. Advanced Programming Possibilities of a SIMATIC S7-1500
7. Troubleshooting with TIA Portal Tools and the SIMATIC S7-1500 CPU Display
8. Presentation of the Structured Control Language (SCL) Editor
9. Presentation of the SIMATIC WinCC Operator Control and Monitoring System
10. Migration of a SIMATIC STEP 7 V 5.x Project to SIMATIC STEP 7 Based on TIA Portal

11. Adaption of a SIMATIC S7-300/400 Program to the SIMATIC S7-1500
12. Migration of a SIMATIC WinCC flexible project to SIMATIC WinCC based on TIA Portal
13. Presentation of the "Start drive" engineering tool with interfacing to a SINAMICS G120 drive
14. Deeper understanding of contents through practical exercises on the SIMATIC S7-1500 TIA system model

CERTIFICATION

Successful participants will receive an **international Siemens certificate**. Siemens LTD is accredited by **merSETA** to fulfil the functions as contemplated in SAQA regulation 13 for the standards and qualification as detailed in the statement of accreditation.

MERSETA TRAINING PROVIDER

Onetrust Training Solutions has received full accreditation as a **merSETA Training Provider**. (Certification number: 17-QA/ACC/2313/21.) We are in the process of extending our scope of accreditation for most of our individual training courses and skills programmes.

CONTACT DETAILS

Further enquiries may be directed to:

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