

## SIMATIC TIA Portal Upgrade / SIMATIC TIA Portal Upgrade (TIA-SYSUP)

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### Objectives

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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, Touchpanel, drive, and a conveyor model. After attending the course, you can: Efficiently use the "TIA Portal" engineering platform Configure and program components of the SIMATIC S7-1500 automation system with the TIA Portal Perform a commissioning of TIA components

### Target Group

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Programmers, Commissioning engineers, Engineering personnel, Maintenance personnel, Service personnel, Operators

### Content

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- 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
- 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 system model

### Prerequisites

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SIMATIC S7 knowledge according to ST-PRO1 or S7-SYS1 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.

### Type

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Face-to-face training

### Duration

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5 days

### Language

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### Fee

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6,050 TRY  
( price without 18% VAT )