

## Online: SIMATIC S7-TIA Migrering fra S7 til TIA (TIA-SYSUP)

### Short Description

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.

### 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.

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

Programmers  
Commissioning engineers  
Engineering personnel  
Maintenance personnel  
Service personnel  
Operators

### 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  
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

SIMATIC S7 knowledge according to ST-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 attendance course, you will receive the WBT "PROFINET" and "Industrial Ethernet". This allows you to improve your personal learning achievement in the attendance course.

### Note

In this course you will work with the SIMATIC S7-1500 – for the SIMATIC S7-1200 we offer our TIA-MICRO1/2 courses.

Documentation in English.

Register in the calendar one week before the training starts.

### Type

Face-to-face training

### Duration

3 days

### Language

no

### Fee

15,100 NOK  
NOK 9 480,-

