

## SIMATIC TIA Portal - S7-1500 system retraining cursus (TIA-SYSUP)

### Kort beskrivelse

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.

### Målsetninger

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

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.

### Målgruppe

Programmers  
Commissioning engineers  
Engineering personnel  
Service personnel

### Innhold

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

Included in the course price: Free access to the digital learning platform [SITRAIN access](#) – starting one week before the start of the course until two weeks after the end of the course. Here you will find web-based trainings on TIA Portal - Optimized blocks, and many more. With the Learning Membership, you can deepen or repeat the content of this Learning Event as well as continue your education on other interesting topics.

### Forutsetninger

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.

- [Online Assessment Test](#)

### Øvrig informasjon

In this course you will work with SIMATIC S7-1500 and software SIMATIC STEP 7 based on TIA Portal.

The Learning Membership starts 7 days before the start of the course and ends 14 days after the end of the course. During this period, you have access to all of the more than 480 web-based trainings available.

### Type

Kurs

### Varighet

5 dager

### Språk

en

