

## Online training - SIMATIC system retraining course for SIMATIC S7-1500 in the TIA Portal (TIA-SYSUP)

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### Kurzbeschreibung

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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 online training 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.

In order to provide you with the best possible support and training in your personal learning environment (own office/home office), we have implemented selected courses as digital online trainings for you. We provide you with live theory lectures from our experts, which convey the course content described in the learning objectives in a practical and comprehensive manner, utilizing our virtual exercise environment for practical exercises. In our virtual classroom, our expert is also available to you at any time during your individual practical exercises for in-depth questions and technical discussions.

### Ziele

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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 will deepen your theoretical knowledge through numerous practice-oriented exercises in our virtual exercise environment on a TIA plant model. This consists of a SIMATIC S7-1500 automation system, Comfort Panel TP700 and a virtual conveyor belt model.

### Zielgruppe

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Programmers  
Commissioning engineers  
Engineering personnel  
Maintenance personnel  
Service personnel  
Operators

### Inhalte

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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  
Consolidation of the content through practice-oriented exercises in the virtual exercise environment.

### Teilnahmevoraussetzung

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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.

[Link to online entrance test](#)

### Technical requirements

For this training you will need a computer with Windows 7 or better Windows 10 and a stable internet connection. We recommend a data transfer rate of 50 Mbit/s. You will require Google Chrome as Internet browser to access a virtual whiteboard and to use our Virtual Exercise Environment (VEE) solution. The platform for this training is Microsoft Teams. We recommend installing the Microsoft Teams app for the best possible use of all functions.

### Hinweise

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

**Typ**

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Online-Training

**Dauer**

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5 Tage

**Sprache**

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**Gebühr**

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Price includes 10 % introductory discount until 30.09.2020