

## "Online-Training" SIMATIC Programming 1 with S7-SCL in the TIA Portal (TIA-SCL1)

### Short Description

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 training 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, utilising 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.

[Also available as Face-To-Face Training](#)

### Objectives

The Totally Integrated Automation Portal (TIA Portal) provides the working environment for end-to-end engineering with SIMATIC STEP 7 and SIMATIC WinCC.

Following the course, you will be able to:

Read, understand, expand, test and commission basic programs written in a high-level programming language (SCL).

Reduce the time spent creating programs for basic applications and reduce the maintenance of basic programs compared to using a Statement List (STL).

### Target Group

Programmers  
Commissioning engineers  
Configuration engineers  
Maintenance engineer  
Maintenance personnel  
Service personnel

### Content

Basics of the SCL programming language  
SCL editor  
Data types  
SCL instructions  
Control structures  
Implicit & explicit conversions  
Calling and formulating functions and function blocks in SCL  
Program draft in SCL  
Working with arrays  
Working with tags and symbolic block names  
Introduction to the basic SCL command set  
Creating, commissioning and testing your own SCL programs  
Reinforcement of the content using practical exercises on the SIMATIC S7-1500 system model

### Prerequisites

Knowledge of SIMATIC STEP 7 based on TIA Portal corresponding to TIA-SYSUP, TIA-SERV2 or TIA-PRO1.

You can use the available online entry test to ensure that the selected course corresponds to your level of competence.

For this "online 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 TIA cloud solution. The platform for this training is Microsoft Teams. We recommend installing the Microsoft Teams app for the best possible use of all functions.

### Note

In this course you will work with the SIMATIC STEP 7 software based on TIA Portal.

### Type

Online-Training

### Duration

3 days

### Language

en

### Fee

1,610 GBP

