

## SIMATIC Programming 1 with S7-SCL in the TIA Portal Virtual (TIA-SCL1)

### Short Description

SIMATIC S7 Programming 1 with Structured Control Language (SCL) teaches you to read, understand, expand, test and commission basic programs written in a high-level programming language (SCL).

### Objectives

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

Select this course if you want to program SIMATIC S7 using a high-level programming language.

Using simple examples, we will show you the advantages offered by a high-level programming language.

The course aims to inform participants about the complete language and performance scope of the Structured Control Language (SCL) development environment.

During the training course, you will create, commission, and test your own SCL programs. In this way, you can implement your theoretical knowledge in a direct, hands-on way on a TIA system model, consisting of a SIMATIC S7 automation system, thereby increasing your learning success.

After the course, you will be able to reduce the amount of time spent on creating and maintaining programs through the use of a high-level programming language (SCL) instead of Statement List (STL).

You are able to create, commission, and test programs in SCL.

### Target Group

Programmers  
Commissioning engineers  
Configuration engineers  
Maintenance engineer  
Advanced Maintenance/Service personnel

### Content

- Introduction to SCL
- Training device and addressing
- Commissioning the training station
- First statements and the SCL editor
- IF and Case statements
- Data types and conversion
- SCL loops
- Complex data types
- Troubleshooting

### Prerequisites

Knowledge of SIMATIC STEP 7 based on TIA Portal corresponding to TIA-SYSUP, TIA-SERV1 or TIA-PRO1.

### Note

The training is provided through MS Teams and the participant will have remote control of the virtual environment. The course teaching and material language is English. The material is provided for students in electrical form as pdf document.

Export control AL:n / ECCN:N

### Type

Online-Training

### Duration

2 days

### Language

en