

## TIA-SCL – Programming with S7-SCL on the basis of TIA Portal / Курс TIA-SCL Программирование с S7-SCL на базе TIA Portal (TIA-SCL)

### Short Description

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 S7-1500 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. 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) to create, commission, and test programs in SCL.

### Target Group

Programmers  
Service personnel

### Content

- Basics of SCL
- SCL-Editor
- Program draft with SCL
- Data types, operations
- Control structures
- Implicit & explicit conversion
- Formulating functions and function blocks in SCL
- Handling of SCL Sources
- Handling of Array-DBs
- Working with tags and symbolic block names
- Introduction to the SCL command set
- Strings & string commands in SCL
- Using the AT-constructs
- Using the data types DB-ANY & VARIANT in SCL
- Creating, commissioning, and testing your own SCL programs
- Deeper understanding of contents through practical exercises on the SIMATIC S7-1500 system model

### Prerequisites

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

### Note

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

### Type

Face-to-face training

### Duration

2 days

### Language

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