
Online: SIMATIC S7-TIA Structured Control Language (SCL) (TIA-SCL1)

Short Description

You can deepen your theoretical knowledge with numerous practical exercises on a TIA system model. This consists of a SIMATIC S7 automation system, distributed I/O ET 200, a Touchpanel, a drive, and a belt model.

Objectives

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

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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

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.

Note

In this course you will work with the SIMATIC STEP 7 software based on TIA Portal
Documentation in English.
Register in the calendar one week before the training starts.

Type

Face-to-face training

Duration

3 days

Language

no