

SIMATIC Programming 1 with SCL in TIA Portal (TIA-SCL1)

简介

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 basis of the language and performance scope of the Structured Control Language (SCL) development environment. During the training course, you will create your own basic SCL programs, commission, and test them. You will also be able to perform diagnostics in SCL blocks.

培训目的

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).

You can deepen your theoretical knowledge with numerous practical exercises on a TIA system model.

培训对象

Programmers
Commissioning engineers
Configuration engineers
Maintenance engineer
Maintenance personnel
Service personnel

课程内容

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

Included in the course price: Free access to the digital learning platform [SITRAIN access](#) — starting one week before the start of the course until two weeks after the end of the course. Here you will find web-based trainings on TIA Portal – Introduction to the SCL Programming Language, and many more. With the Learning Membership, you can deepen or repeat the content of this Learning Event as well as continue your education on other interesting topics.

必备条件

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.

- [Online Assessment Test](#)

注意事项

In this course you will work with the SIMATIC STEP 7 software based on TIA Portal.
Choose the [TIA-PROEXP](#) if you are deeper Want to get started with SCL programming and develop into an expert for SIMATIC S7-1500.

The Learning Membership starts 7 days before the start of the course and ends 14 days after the end of the course. During this period, you have access to all available web-based trainings.

课程类型

标准课程

培训天数

3 天

培训语言

en

