

Siemens Automation Cooperates with Education (SCE) | 02/2026

SCE Course Contents

Basic Course: SCL High-Level Language with SIMATIC S7
and TIA Portal

TIA Portal course

2 days

Prerequisites

- Basic knowledge of Windows PC
- Advance Course SIMATIC S7 with TIA Portal

SCE Learn-/Training Documents

- SCL and SIMATIC S7-1200 module: 051-201
- SCL and SIMATIC S7-1500 module: 052-201

Contents

- Brief review of the SIMATIC S7 control system
- Creating a project with the TIA Portal
- Configuring an S7 station
- Working with the SCL editor

- Customizing the SCL user interface
- Creating user programs in SCL
- Entering declarations, instructions and comments
- Description of SCL language
- The compiling process
- Selection and assignment of the possible block types
- Specification of the block interfaces in SCL
- Continuous monitoring
- Activating breakpoints
- Monitoring/forcing tags
- Reference data

Note: This course can be conducted alternatively with SIMATIC S7-1500, S7-1200 or S7-300

Note:

These Learn-/Training Documents are available in the SCE Internet: [siemens.com/sce/module](https://www.siemens.com/sce/module)

This program serves as the reference and guideline for the course, in which we place great value on practical exercises and application examples.

We will of course be pleased to cover any individual suggestions, requests and questions from participants during the event.

Additional SCE courses are available in the SCE Internet: [siemens.com/sce/courses](https://www.siemens.com/sce/courses)

Increase your automation technology expertise and inspire your students.

