



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

SCE Course Contents

University Workshop: TIA Portal with SIMATIC S7-1500,
ET 200SP on PROFINET and Visualization with WinCC Advanced

TIA Portal course

2 days

Prerequisites

- Basic knowledge of automation engineering with SIMATIC

SCE Learn-/Training Documents

- Hardware configuration S7-1500 module: 012-100
- Hardware configuration S7-1500 module and ET 200SP: 012-201
- Process description module: 020-100
- Programming S7-1500 modules: 032-200 | 032-300 | 032-410 | 032-420
- Visualization module: 042-201
- Frequency Converter G120 on PROFINET with SIMATIC S7-1500 module: 062-101

Contents

- TIA Portal: New information about SIMATIC S7-1200/1500 PLCs
- Safety and security with SIMATIC S7-1200/1500
- More efficient programming and configuration with the TIA Portal and SIMATIC S7-1500
- New commands and functions of SIMATIC S7-1200/1500
- Programming examples for SIMATIC S7-1500
- Test and diagnostic functions for SIMATIC S7-1500
- Remote programming and web services for SIMATIC S7-1500
- Commissioning of PROFINET with the TIA Portal:
SIMATIC S7-1500 as IO controller and ET 200SP as IO device
- Process visualization in the TIA Portal with WinCC
- Example application for WinCC with the TIA Portal and Comfort Panel TP700
- Commissioning and parameter assignment of these converters with SINAMICS Startdrive
- Connection of a frequency converter to a SIMATIC S7 PLC via PROFINET

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.

