

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

# SCE Course Contents

Basics of PROFIBUS and PROFINET with the TIA Portal

TIA Portal course

2 days

## Prerequisites

- Basic knowledge of Windows PC
- Basic course SIMATIC S7 with TIA Portal

## SCE Learn-/Training Documents

- Hardware configuration SIMATIC S7-1500 and ET200SP via PROFINET module: 012-201

## Contents

- Fieldbus systems in automation engineering
- Requirements for a bus system
- Hierarchy levels in automation engineering
- General information about fieldbus systems
- Technical specifications and functionality of PROFINET/PROFIBUS
- Bus configuration and network structure

- Components for configuring PROFINET/PROFIBUS
- PROFINET/PROFIBUS network components
- Remote programming via PROFINET/PROFIBUS
- I/O controllers and field devices on PROFINET/PROFIBUS
- Commissioning PROFINET with a SIMATIC S7 I/O controller and ET 200 I/O devices
- Commissioning PROFIBUS with a SIMATIC S7 master and ET 200 slaves
- Optional: CPU/CPU communication on PROFINET/PROFIBUS

**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.***

