

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

SCE Course Contents

Application for Industrie 4.0 Industrial Networking
IT Security / OPC UA 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

- Advanced Communication modules - OPC UA with SIMATIC S7-1500 and Node-RED: 092-300 | 092-303
- Security module - Industrial Ethernet with SIMATIC S7-1500 and SCALANCE XC208: 142-100
- Security module - Industrial Security with SIMATIC S7-1500 and SCALANCE S615: 142-200

Contents

- Industrie 4.0 - Driving the Digital Enterprise

- IT security with OPC / Ethernet / PROFINET
- General information on OPC UA / Ethernet / PROFINET
- Applications for IT security on Industrial Ethernet
- Applications for IT security on PROFINET
- Technical specifications and functionality of OPC UA
- OPC UA – Open communication in the TIA Portal with SIMATIC S7-1500
- Commissioning OPC UA with SIMATIC S7-1500 as a server and Node-RED as client
- Other OPC UA clients such as TP700, Excel, etc.

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.

