

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

SCE Course Contents

Basics for Programming an IOT2000

TIA Portal course

2 days

Prerequisites

- Basic knowledge of Windows PC
- Basic knowledge of automation engineering and the C programming language

SCE Learn-/Training Documents

- Hardware configuration IOT2000 module: 014-101
- FC-Programming IOT2000 module: 034-100
- OPC-UA and Node-RED with SIMATIC IOT2000 modules:
092-300 / 092-303 / 094-100

Contents

- Information on areas of application and structure of IOT2000
- Introduction to SIMATIC IOT2000
- Applications with the IOT2000 (Node-RED, Arduino, OPC client, S7 connection with Node-RED, etc.)
- Commissioning of IOT2000 including TIA Runtime

- Addressing the IOT2000 GPIOs
- Creating a project with the TIA Portal
- Configuring a SIMATIC S7 station in the TIA Portal
- Writing, testing and storing program blocks in the TIA Portal

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.

