

## OPC UA with SIMATIC Controllers (IK-OPCCTRL)

### Short Description

OPC UA is an open standard for horizontal machine-to-machine communication (M2M) and vertical communication from machine to cloud. It is manufacturer- and platform-independent, supports extensive security mechanisms and can be optimally combined with PROFINET in a common Industrial Ethernet network. This training teaches you the basics of OPC UA and enables you to use OPC UA with SIMATIC Controllers.

### Objectives

You can configure SIMATIC S7-1200 and S7-1500 Controllers as OPC UA servers and program OPC UA clients in SIMATIC S7-1500 Controllers. You can secure OPC UA communication with encryption and authentication and create simple server interfaces with TIA Portal. Combine your Learning Event with web-based training on our digital learning platform for industry and thus increase your personal learning success. On SITRAIN access you will find various additional trainings on OPC UA, as well as on other topics such as TIA Portal, Industrial Communication or Digitalization.

As part of your course booking, you will receive free trial to the digital learning platform SITRAIN access:

[Click here for more information on SITRAIN access](#)

You have access to over 200 web-based training courses 7 days before the start of the course. The test period ends automatically 14 days after the end of the course.

As an introduction to the digital learning platform, we recommend the following curriculum:

[SIMATIC OPC UA](#)

### Target Group

- Automation engineers
- Programmers

### Content

- Basics of OPC UA
- Configuring OPC UA servers
- Programming methods
- Securing OPC UA communication
- Modelling server interfaces with TIA Portal
- Programming OPC UA clients

### Prerequisites

- Basic knowledge of network engineering
- Knowledge according to [TIA-PRO2](#)
- Basic knowledge of SCL

### Note

Are you looking for a course that dives deep into the OPC UA specification and is not limited to controllers? Then take a look at our [OPC UA System Course](#).

### Type

Face-to-face training

### Duration

2 days

### Language

en