

OPC UA - Basics and Configuration, Virtual (IK-OPCUA1E)

Short Description

This training offers you a detailed introduction into the basic concepts of the OPC UA system and its interfaces. You will learn the terminology behind the abstract model and test and deepen your understanding of it with several OPC UA capable components. You will learn about the most important OPC UA servers and clients in the SIMATIC product portfolio and will configure and program them in practical exercises. A continuous exercise concept will lead you gradually to a communication model that is solely based on OPC UA communication.

Objectives

At the end of this training you will be familiar with the basics, the terminology and the data models of OPC UA in the automation environment. You will understand the interaction of its components and be able to configure the most important OPC UA servers and clients of the SIMATIC product portfolio.

Target Group

Automation engineers Programmers Commissioning engineers

Content

Introduction to OPC Infrastructure of OPC UA Security of OPC UA

Information model, data access types and profiles of OPC UA

SIMATIC controllers as OPC UA servers and clients:

Configuring the OPC UA server

Programming OPC UA methods

Programming an OPC UA client

OPC UA Companion Specifications and modeling the server interface with SiOME

SIMATIC HMI products as OPC UA servers and clients

SIMATIC HMI Comfort/Mobile Panel

SIMATIC WinCC Runtime Advanced

SIMATIC WinCC Runtime Professional

SIMATIC NET OPC Server

Standard OPC UA clients (UaExpert, OPC Scout)

Performance of OPC UA connections

Diagnostics and debugging of OPC UA components

Prerequisites

Basic knowledge of network engineering Knowledge according to TIA-PRO1 or TIA-SERV1

Note

The training is provided through MS Teams and the participant will have remote control of the virtual environment. The course teaching and material language is English. The material is provided for students in electrical form as pdf document.

Export control AL:n / ECCN:N

Туре	
Online-Training	
Duration	
3 days	
Language	

en **Fee**

1,500 EUR