

## OPC UA System Course (IK-OPCSYS)

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### Short Description

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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

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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

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Programmers, Commissioning engineers, Engineering personnel, Maintenance personnel, Service personnel, Operators

### Content

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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  
SIMATIC Ident RF600 Reader as OPC UA server  
Integration of 3rd Party OPC UA servers using a 2D code reader  
Standard OPC UA clients (UaExpert, OPC Scout)  
Performance of OPC UA connections  
Diagnostics and debugging of OPC UA components  
Migration from OPC Classic to OPC UA

### Prerequisites

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SIMATIC S7 knowledge according to ST-PRO2 or ST-SERV2 or S7-SYS2

### Type

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Face-to-face training

### Duration

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4 days

### Language

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### Fee

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704 EUR  
( price without 20% VAT )