

OPC UA System Course (IC-OPCSYS)

Présentation

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.

Objectifs

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.

Groupes cibles

- Automation engineers
- Programmers
- Commissioning engineers

Programme / Contenu

- 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
- OPC UA gateways
 - SIMATIC NET OPC Server
 - SIMATIC CloudConnect 7
- 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

Included in the course price: Free access to the digital learning platform [SITRAIN access](#) – starting one week before the start of the course until two weeks after the end of the course. Here you will find web-based trainings on [SIMATIC OPC UA](#) as well as other topics such as [Industrial Communication](#), [Industrial Automation Systems SIMATIC](#) and many more. With the Learning Membership, you can deepen or repeat the content of this learning event as well as continue your education on other interesting topics.

Prérequis

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

Remarque

The Learning Membership starts 7 days before the start of the course and ends 14 days after the end of the course. During this period, you have access to all available web-based trainings.

Type

Formation en salle

Durée

4 Jours

Langue

en

