SIEMENS

OPC UA System Course (IC-OPCSYS)

Краткое описание

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

Цели

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

Целевая группа

- Automation engineers
- Programmers
- Commissioning engineers

Содержание

- Introduction to OPC
- Infrastructure of OPCUA
- Security of OPCUA
- Information model, data access types and profiles of OPCUA
- SIMATIC controllers as OPCUA servers and clients:
  - Configuring the OPCUA server
  - Programming OPCUA methods
  - Programming an OPCUA client
- OPCUA Companion Specifications and modeling the server interface with SiOME
- SIMATIC HMI products as OPCUA 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 OPCUA server
- Integration of 3rd Party OPCUA servers using a 2D code reader
- Standard OPCUA clients (UaExpert, OPC Scout)
- Performance of OPCUA connections
- Diagnostics and debugging of OPCUA components
- Migration from OPC Classic to OPCUA

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.

Требования к участнику

- Basic knowledge of network engineering
- Knowledge according to TIA-PRO2
- Basic knowledge of SCL

Примечания

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.

Тип

Очный тренинг

Продолжительность

4 Дн.

Язык

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