SIEMENS

Security in Industrial Networks with SCALANCE (IC-SECINP)

Краткое описание

It is difficult to imagine day-to-day industrial operations without Ethernet connections. From large-scale production systems to the smallest Industrial Ethernet communication networks, nearly everything has come to depend on their reliability and security. The opportunities on the one hand are countered by risks on the other hand. Access by outsiders or manipulation in the network always has catastrophic consequences for production or in-house expertise. Therefore, functioning security systems are an absolute must.

In this course you will learn the potential dangers and risks in industrial networks and how to assess them. You will be shown numerous ways to improve the protection of know-how and process sequences from attacks, espionage, and manipulations. During the course you will become familiar with knowledge necessary to apply concepts mandated by common security standards. Because the course does not just cover theoretical security concepts, there is also ample opportunity to implement them in practical exercises.

Цели

At the end of this course, you will know the requirements and fundamentals needed to plan, implement, and provide support for industrial security measures.

Целевая группа

- Decision makers
- Planners
- Sales personnel
- Configuring engineers
- Commissioning engineers
- Engineering personnel
- Project engineers
- Maintenance personnel
- Service personnel
- Industry: COOs
- IT: CIOs, network planners and administrators

Содержание

- Current trends and security risks
- Defense-in-depth with Siemens - a holistic security concept
- Update and replacement of security components
- Potential threats in a network
- Basic security measures (ports, passwords, protocols, etc.)
- Cell protection concept
- Access restriction
- Connection of standard machines to networks
- Remote access via VPN
- Comprehensive exercises using the SIMATIC NET product portfolio

Требования к участнику

Knowledge according to course "Ethernet Fundamentals in Industrial Networks" (IK-ETHBAS):

Participant shall have basic knowledge of Ethernet and should be familiar with network topologies, transfer processes, addressing, data transport, and associated technical vocabulary. It is also helpful if you are familiar with the principles of operation of switches, hubs and the OSI reference model.

Participants are encouraged to attend the Switching and Routing in Industrial Networks SCALANCE training course

IK-ETHBAS

To prepare for the training, please work through the WBT Data communication with Industrial Ethernet.

Примечания

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.
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.

Certification (Siemens CPIN-LEVEL)

After the training course, you have the opportunity to become certified as "Siemens Certified Professional for Industrial Networks - Industrial Security". The certification examination takes place at the end of this training. As an option, the examination may be taken at a later time.

Please note that before the examination you have to identify yourself by showing a valid photo identification.

Тип

Очный тренинг

Продолжительность

3 Дн.

Язык

en

copyright by Siemens AG 2026