SIEMENS

Online-Training - Basics of Cybersecurity in the Factory Automation (ST-SECFAB)

Short Description

The training provides an overview of protection concepts against current cyber threats in industry and how industrial plants and machines can be effectively protected using a comprehensive approach. The participants should learn how and which security measures can be implemented using concrete examples using the security portfolio of Siemens Digital Industries (DI).

Objectives

In the course, participants acquire knowledge of which countermeasures and portfolio elements can be used to protect industrial plants and machines against cyber threats..

Target Group

- Machine builders, system integrators, plant operators
- Cybersecurity Officers, those responsible for cybersecurity
- Project manager, project staff
- Technologists
- Project planners, programmers
- Commissioning engineer

Content

- Awareness and understanding of cyber security threats & risks for industrial production facilities
- Demonstration of security concepts, standards and best practices adapted and optimized for the industry based on use cases and by using the automation portfolio of Siemens Digital Industries.
- How the integrated security functions in the DI Security Portfolio can be configured and used in combination with a holistic security concept.
- What does the Defense in Depth security concept include?
- Getting started with user administration with TIA Portal
- Controller security – System integrity for SIMATIC Controllers
- An introduction to authentication and encryption mechanisms
- Secure communication mechanisms of the SIMATIC CPU S7-1500
- Network security – the cell protection concept and the implementation of remote maintenance access
- Plant security – physical and organizational security measures

Prerequisites

- Basic knowledge about industrial automation
- Basic knowledge about industrial communication

Note

This course is a purely theoretical course. The exercises are discussed by the trainer and are used for independent learning after the course.

Type

Online-Training

Duration

2 days

Language

en