

## Online Training - Grundlagen Cybersecurity für die Industrie (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

de