

## Online-Training - Basics of cybersecurity in the factory automation (ST-SECFAB)

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### Short Description

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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

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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

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

### Content

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- 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

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

### Note

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To prepare for the training, please work through the WBT [Data communication with Industrial Ethernet](#).

### Type

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Online-Training

### Duration

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2 days

### Language

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