SIEMENS

Security in Industrial Networks with RUGGEDCOM (RC-SECINP)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

3 Days
0 CEUs

Target Group

- Engineer
- Commissioning
- Maintenance
- Operator
- Programmer
- Reliability
- Sales
- Other

Short Description

It is difficult to imagine day-to-day industrial operations without Ethernet connections. From large-scale environment to the smallest Industrial Ethernet communication network, nearly everything has come to dependency on the overall systems reliability and security. The opportunities on the one hand are countered by risks on the other hand. Access by outsiders or manipulations in the network always has catastrophic consequences on application or on in-house expertise. Therefore, functioning security systems are an absolute must. During the course you will become familiar with the knowledge necessary to apply concepts mandated by common security standards. The course does not just cover theoretical security concepts, it also provides the opportunity to implement these concepts through practical hands-on exercises.

Objectives

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

Content

- Understanding what threats lurk Industrial Ethernet networks
- Defense-in-depth approach
- Security measures and guidelines (best practices, industry driven)
- Hardening the RUGGEDCOM product line
- Protecting Control Networks (firewall, address translation (NAT))
- Site to Site and Remote access via VPN (IPsec)
- Comprehensive exercises using the SIMATIC NET product portfolio

Recommended Prerequisites

IC-ETHFU: IC-ETHFU

Language

English