SIEMENS

Industrial Networks Education

Monitoring and Configuration with SINEC NMS for RUGGEDCOM-Virtual

General Information

Course Code: **IEN-IKOILMONCR**
Length: 3.5 Days

Audience

This course is for users who are involved with developing or sustaining networks in rugged environments – such as Electric Power, Transportation, Rail, and Defense markets, where RUGGEDCOM equipment is required. This includes, but is not limited to the following:

- Application Engineers
- Automation Engineers
- Communication Engineers
- Control Engineers
- Operations or IT Network Engineers
- Project Engineers
- Substation Engineers
- System Engineers

Prerequisites

- Knowledge in accordance with the course "Fundamentals of Industrial Networking" (IEN-NETFUND1A).

- Participants must be very familiar with topologies, transmission methods, addressing and transport of data in industrial networks and understand the associated technical vocabulary.

- Ideally, participants should have practical experience in the field of industrial networks.

Profile

This course is one of Siemens Industrial Networks Education Courses, available for engineers looking to obtain this Certified Professional for Industrial Networks (CPIN) designation.

Throughout the course, students will have ample time for practical exercises, diagnostics, and troubleshooting. The course uses a hands-on model for realistic demonstrations.

Objectives

Upon completion of this course, the student will learn:

- How to use the network monitoring and management system SINEC NMS to monitor, document and configure their network from a central location.
- How to plan, implement and maintain their network management solution.
- What the requirement and solutions are for monitoring and managing industrial networks with SINEC NMS.

Topics

- Fundamentals of network monitoring
- Documentation and inventory of networks to create transparency
- Detection and diagnostics of network events
- Customized and clear depiction of the monitored network
- Evaluation and optimization of the network performance
- Monitoring of third-party devices (manufacturer-independent network monitoring)
- Central user management with UMC (User Management Component)
- Integration of the network monitoring data with external systems
- Implementation of policy-based network configurations with SINEC NMS
- Central firewall- and NAT-management
- Network monitoring with multiple SINEC NMS Operations