

Managing Industrial Networks for Manufacturing with Cisco Technologies (IMINS2)

Duration 5 Days

COURSE CONTENT

The Managing Industrial Networks for Manufacturing with Cisco Technologies (IMINS2) course builds upon Managing Industrial Networks with Cisco Networking Technologies (IMINS) and designed to assure the industrial network engineering professionals are able to design, configure, and troubleshoot networked industrial products and solutions. Upon completion of the course, students will be able to:

- Identify Cisco Industrial Networking Solutions
- Describe Cisco Industrial Ethernet switches, Rockwell Automation Stratix switches, and Cisco Connected Grid Switches and Routers
- Interpret Design and Drawings
- Recognize Zone and Cell Topologies
- Install Industrial Network Components
- Deploy Industrial Network Components
- Perform basic Maintenance Tasks on the Network
- Troubleshoot Network and Control Issues

COURSE OUTLINE

- **Module 1:** Industrial Networking Concepts and Components
- **Module 2:** General Troubleshooting Issues
- **Module 3:** EtherNet / IP
- **Module 4:** Configure IEEE 1588 Precision Time Protocol
- **Module 5:** Troubleshooting EtherNet / IP
- **Module 6:** PROFINET
- **Module 7:** Configure PROFINET
- **Module 8:** Troubleshooting PROFINET
- **Module 9:** Exploring Security Concerns
- **Module 10:** 802.11 Industrial Ethernet Wireless Networking

PREREQUISITES

- Describe network fundamentals and build simple LANs
- Establish Internet connectivity
- Manage network device security
- Expand small- to medium-sized networks with WAN connectivity
- Describe IP basics
- Identify Cisco industrial networking solutions
- Describe Cisco Industrial Ethernet switches, Rockwell Automation Stratix switches, and Cisco Connected Grid switches and routers
- Interpret design and drawings
- Recognize zone and cell topologies
- Install industrial network components
- Deploy industrial network components
- Perform basic maintenance tasks on the network
- Troubleshoot network and control issues

WHO SHOULD ATTENT

- Channel Partners
- Customers