

IMINS: Managing Industrial Networking for Manufacturing with Cisco Technologies

Price: 4595

Duration: 5 days

Delivery Methods: Virtual

Overview

Managing Industrial Networks for Manufacturing with Cisco Technologies (IMINS2024) is a lab-intensive course, which helps you with the skills required to successfully implement and troubleshoot the most common industry standard protocols while leveraging best practices needed in security and Wireless technologies for today's industrial networks. The IMINS2024 course helps plant administrators, control system engineers and traditional network engineers in the manufacturing, process control, and oil and gas industries, who will be involved with the convergence of IT and Industrial networks. This course is job-role specific and enables you to achieve competency and skills to configure, maintain, and troubleshoot industry-standard network protocols as well as wireless and security technologies to ensure that current infrastructures are maximized while developing a converged platform for flexibility to support future business outcomes. Students will be exposed to multiple industrial network technologies as well as products from Cisco and other industrial suppliers.

Who Should Enroll

This course is designed for IT and operations technology (OT) professionals and control engineers who will be involved with the installation, configuration, and troubleshooting of networked industrial products and solutions for the following industries:

- Manufacturing
- Process control
- Oil and gas
- Other industries as applicable

How you'll benefit

This training will help you:

- Overview of IPv6 technologies
- IPv6 design and implementation
- IPv6 operations include: addressing, routing and transitional methods
- Deployment of IPv6 in enterprise, government and service provider networks
- Case studies useful for deployment scenarios
- Current standards for deploying IPv6 in a single stack or dual stack environment

COURSE OBJECTIVES

Upon completing this course, the learner will be able to meet these overall objectives:

- Upon completing this course, you will be able to meet these objectives:
- Understand the functions of the OSI Layers and TCP/IP Model
- Recognize the differences between Enterprise and Industrial Networks
- Troubleshoot common issues found in Layers 1, 2, 3 of the OSI Model
- Describe the functions and components of Ethernet/IP Protocols
- Configure and troubleshoot CIP on Cisco
- Describe the functions and components of the PROFINET protocol
- Configure PROFINET Protocols on Cisco Industrial Ethernet Devices
- Troubleshoot common PROFINET Issues
- Identify common network threats and resolutions and configure basic security components (Access Lists and AAA Features)
- Configure a wireless network within an industrial environment

Learning Path Prerequisites

The knowledge and skills that a learner should have before attending this course are as follows:

- Describe network fundamentals and build simple LANs
- Establish Internet connectivity
- Manage network device security
- Expand small- to medium-sized networks with WAN connectivity
- Describe IPv6 basics
- Identify Cisco industrial networking solutions
- Describe Cisco Industrial Ethernet 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: Troubleshooting EtherNet/IP

Module 5: PROFINET

Module 6: Configuring PROFINET

Module 7: Troubleshooting PROFINET

Module 8: Exploring Security Concerns

Module 9: 802.11 Industrial Ethernet Wireless Networking

Course Schedule

Date	Time	Price	Options
05/11/2026	09:00 AM - 05:00 PM CT	4,595.00	Buy Now Enroll

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