

Cisco Understanding Cisco Industrial IoT Networking Foundation (INFND)

Duration: 40.00 hours (5 days)

32.5 CPD Hours

Rating: ★ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

The Understanding Cisco Industrial IoT Networking Foundation (INFND) v1.0 course gives you an overview of the protocols, applications, and network infrastructure you need to support and manage Industrial Internet of Things (IIoT) solutions. You will learn about IIoT industry verticals and how different protocols are used within them. The course also covers configuring and verifying the protocols on Cisco® IIoT networking devices.

About This Course

The Understanding Cisco Industrial IoT Networking Foundation (INFND) v1.0 course gives you an overview of the protocols, applications, and network infrastructure you need to support and manage Industrial Internet of Things (IIoT) solutions. You will learn about IIoT industry verticals and how different protocols are used within them. The course also covers configuring and verifying the protocols on Cisco® IIoT networking devices.

Who Should Attend

Operational Technology (OT) Engineers

IT engineers

Generalists, including managers, project leads, and solutions and business architects

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Define what IIoT is and identify IIoT architectures.

Identify IIoT market verticals, and their motivations and requirements.

Explore Cisco IIoT networking devices, how they are different from other devices, and use common administrative tools for managing them.

Explore industrial communications protocols for control and automation, and how they have been adapted to run on top of a TCP/IP network infrastructure.

Describe wireless protocols used in IIoT environments, including architectures and devices used.

Understand the TCP/IP protocol stack and how it is used with other protocols in IIoT environments.

Discuss network protocols for clock synchronization between network devices, and describe available tools for IIoT network administration.

Discuss wireless technologies used in a core LAN, and their relevance to IIoT implementations.

Explore field WAN technologies and how they are used in IIoT environments.

Explore legacy protocols and explain the methods available to transport non-routable protocols over modern networks.

Explain fundamental concepts of Quality of Service (QoS) related to IIoT network environments.

Discuss Multiprotocol Label Switching (MPLS) operation, components, terminology, and features, and explore its use in IIoT environments.

Explore Layer 2 and Layer 3 VPN technologies and describe the way they can be used on IIoT deployments.

Describe Dense Wave Division Multiplexing (DWDM) technology and its use in IIoT environments.

Explore Layer 1 and Layer 2 high availability technologies and redundancy mechanisms.

Describe Layer 3 high availability and the need for Layer 3 redundancy in IIoT deployments

Additional Course Details

Nexus Humans Cisco Understanding Cisco Industrial IoT Networking Foundation (INFND) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Cisco Understanding Cisco Industrial IoT Networking Foundation (INFND) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Cisco Understanding Cisco Industrial IoT Networking Foundation (INFND)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
 - Traditional Instructor-Led Classroom Training (ILT)
 - On-site delivery at your offices anywhere in United Kingdom
 - Private dedicated courses customized for your team
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Q: How many CPD hours does this course provide?

The 5-day Cisco Understanding Cisco Industrial IoT Networking Foundation (INFND) course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Cisco Understanding Cisco Industrial IoT Networking Foundation (INFND) training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Cisco Understanding Cisco Industrial IoT Networking Foundation (INFND)?

Yes, we provide corporate training, dedicated training, and closed classes for Cisco Understanding Cisco Industrial IoT Networking Foundation (INFND). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Cisco Understanding Cisco Industrial IoT Networking Foundation (INFND)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPALS** when booking your Cisco Understanding Cisco Industrial IoT Networking Foundation (INFND) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

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