Implementing Cisco Enterprise Wireless Networks (ENWLSI)

Category: Networking & Security | **Vendor:** Cisco

Duration: 40.00 hours (5 days) **32.5 CPD Hours**

Rating: ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Instructor Led - Online
Certification:	Cisco Certified Specialist – Enterprise Wireless Implementation, CCNP
Related Exam:	300-430

Course Overview

The Implementing Cisco Enterprise Wireless Networks (ENWLSI) training helps you implement network settings to provide a secure wireless network infrastructure and troubleshoot any related issues. The goal of this 5-day instructor-led training is to prepare you to secure and implement the wireless infrastructure, and use Cisco Identity Service Engine (ISE), Cisco Prime Infrastructure (PI), Cisco DNA Center, Cisco Spaces, and Cisco Connect Mobile Experience to monitor and troubleshoot network issues.

This training provides you with hands-on labs to reinforce concepts including deploying Cisco Catalyst 9800 Wireless Controller Release IOS XE Cupertino 17.9.5, Cisco Digital Network Architecture (DNA) Center Release 2.3.5.4, Cisco Prime Infrastructure Release 3.10, Cisco Spaces, Features and Cisco Identity Services Engine (ISE) Release 3.3.

This training prepares you for the 300-430 ENWLSI: Implementing Cisco Enterprise Wireless Networks exam. If passed, you earn the Cisco Certified Specialist – Enterprise Wireless Implementation certification and satisfy the concentration exam requirement for the CCNP Enterprise certification.

Our lab utilizes physical access points (9120, 3802), physical wireless clients as well as real DNAC and PI. This allows further exploration of the dashboard.

Course Benefits

This course will help you:

- Use Cisco Identity Services Engine, Cisco Prime Infrastructure, and Cisco Connect Mobile Experience to streamline network management, improve operations efficiency, and enhance consistency of network services
- Implement, secure and configure a tailored Cisco wireless network infrastructure
- Earn 40 CE credits toward recertification

What to Expect in the Exam

300-430 ENWLSI: Implementing Cisco Enterprise Wireless Networks is a 90-minute exam associated with the Cisco Certified Specialist – Enterprise Wireless Implementation certification and satisfies the concentration exam requirement for the CCNP Enterprise certification.

The multiple-choice format tests your knowledge of wireless network implementation, including:

- FlexConnect
- QoS
- Multicast
- Advanced location services
- Security for client connectivity
- Monitoring
- Device hardening

About This Course

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Who Should Attend

- Wireless Network Engineers
- Security Network Engineers
- Sales Engineers
- Wireless Network Technicians
- Test Engineers
- Network Designers
- Network Administrators
- Network Managers
- Midlevel Wireless Support Engineers
- Project Managers

Prerequisites & Entry Requirements

General Prerequisites:

Before taking this course, you should have:

- General knowledge of networks and wireless networks
- Routing and switching knowledge

Attending one of these Cisco courses below will help you prepare for this course:

Implementing and Administering Cisco Solutions (CCNA)

Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR)

Understanding Cisco Wireless Foundations (WLFNDU)

We recommend prior attendance of the courses

- Wireless Fundamentals 1 (WFUN1) and Wireless Fundamentals 2 (WFUN2) or
- Certified Wireless Network Administrator (CWNA)

Learning Outcomes

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

- Explain how to secure the wireless network infrastructure
- Access and navigate the remote lab
- Explain device administration
- Describe security best practices for administrative access to Cisco WLC
- Describe Cisco WLC configuration and overview for TACACS+
- Explain role-based access control in Cisco ISE
- Explain how to configure access to the access point
- Configure secure port access for the access points
- Implement the 802.1X authentication process
- Explain how to configure access points and Cisco ISE for the 802.1X authentication
- Describe how to monitor and troubleshoot a wireless network
- Describe access point joint issue troubleshooting
- Describe the tools for CAPWAP access point discovery, DTLS, and join issues troubleshooting
- Capture a successful AP authentication
- Describe how to monitor and manage the network for rogue devices and RF interferers on Cisco WLC and Cisco Prime Infrastructure
- Describe how to implement and add devices to Cisco Prime Infrastructure
- Describe how to add access points to maps and monitor wireless clients
- Explain reports and their functions in Cisco Prime Infrastructure
- Describe enhanced client information with Cisco ISE and location details with Cisco CMX
- Discover how to use Cisco Prime Infrastructure for network monitoring
- Explain how to observe wireless networks for rogue devices, add devices to, monitor radio frequency interferers, and integrate Cisco DNA Center with external resources
- Explain how to troubleshoot access point and WLC issues with Cisco DNA Center Assurance
- Explain enhanced network insights with Cisco AI Network Analytics
- Observe and learn how to use reports in Cisco DNA Center
- Explain how to implement AAA-Based wireless security on Cisco WLC and Cisco ISE
- Explain how to configure WLAN for 802.1X on Cisco WLC and wireless clients for 802.1X authentication
- Explain how to implement and configure AAA override on Cisco WLC and Cisco ISE
- Configure, understand, and perform FlexConnect authentication, identity-based networking, split tunneling, and AAA services on Cisco WLC

- Explain how to upgrade FlexConnect access points
- Describe how to configure OfficeExtend
- Implement guest access in the wireless network
- Explain how to implement central web authentication
- Describe how to configure Cisco WLC and Cisco ISE for Centralized Web Authentication
- Show Cisco WLC configuration for Guest Services
- Explain the basics, onboarding process of BYOD
- Explain how to configure Cisco ISE for BYOD in the wireless network
- Describe how to monitor and troubleshoot client connectivity on Cisco WLC and authentication issues
- Show how to capture successful client authentication by using Radioactive Trace and Cisco ISE
- Describe the issues that affect client performance
- Explain wireless coverage and capacity, how to enhance client performance, and troubleshoot client throughput and data rate issues
- Describe how to implement QoS in wireless networks
- Describe QoS In wireless networks, marking QoS, and traffic classifications
- Explain congestions in the wireless world
- Describe IEEE 802.11 QoS fundamentals and how to configure Cisco WLC to support voice traffic
- Show how to configure QoS in the wireless network for voice and video services
- Describe how to optimize wireless utilization with Cisco Aire Time Fairness, QoS profiles, and Cisco Fastlane
- Implement and configure multicast services, forwarding, and Cisco AVC in wireless networks and on Cisco WLC
- Implement multicast services
- Explain how to configure mDNS and Cisco Media Stream
- Describe Cisco DNA Center Service for Bonjour and Cisco Media Stream
- Explain the QoS troubleshooting process in the wireless network and on Cisco WLC
- Describe how to use AVC to identify issues
- Describe how to verify and troubleshoot mDNS and media stream on Cisco WLC
- Explain how to deploy Cisco Spaces and Cisco CMX
- Describe how to implement location-based services and the provided functionalities
- Describe how to design for location services, deploy Cisco Spaces and Cisco CMX, and integrate Cisco Spaces and Cisco XMC with Cisco DNA Center, and Cisco CMS with Cisco Prime Infrastructure
- Describe how to deploy and configure Cisco Hyperlocation
- Describe how to implement detect and locate services in Cisco Spaces
- Describe how to prepare maps for location services in Cisco DNA Center, implement, detect, and

locate services on Cisco CMX, analytics services in Cisco Spaces, and on Cisco CMX

- Describe how to implement presence services on Cisco CMX

- Describe how to implement and configure guest services, monitor, detect, and run analytics on wireless clients, rouge devices, and interferers in Cisco Spaces and with Facebook on Cisco CMX

- Describe how to troubleshoot location accuracy

Detailed Course Outline

- Secure the Wireless Network Infrastructure

- Monitor and Troubleshoot Wireless Network

- Monitor Wireless Networks with Cisco Prime Infrastructure

- Monitor Wireless Network with Cisco DNA Center

- Implementing 802.1X Authentication

- Configure Cisco FlexConnect

- Implement Guest Access

- Monitor and Troubleshoot Client Connectivity

- Implement QoS in Wireless Network

- Implement Cisco AVC in Wireless Networks

- Implement Multicast Services

- Troubleshoot QoS

- Deploy Cisco Spaces and Cisco CMX

- Implement Location Services

- Monitor Wireless Network with Cisco Spaces and Cisco CMX

Certification Path

Cisco Certified Specialist – Enterprise Wireless Implementation, CCNP

Exam: 300-430

Skills You Will Learn:

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Frequently Asked Questions

Q: What delivery options are available for Implementing Cisco Enterprise Wireless Networks (ENWLSI)?

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

Q: What certification does this course prepare me for?

The Implementing Cisco Enterprise Wireless Networks (ENWLSI) course helps prepare you for the Cisco Certified Specialist – Enterprise Wireless Implementation, CCNP certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the 300-430 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 5-day Implementing Cisco Enterprise Wireless Networks (ENWLSI) 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 Implementing Cisco Enterprise Wireless Networks (ENWLSI) 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 Implementing Cisco Enterprise Wireless Networks (ENWLSI)?

Yes, we provide corporate training, dedicated training, and closed classes for Implementing Cisco Enterprise Wireless Networks (ENWLSI). 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: What related terms do people search for?

Popular related searches include: Implementing Cisco Enterprise Wireless Networks, Cisco Professional Level Networking - CCNP, ENWLSI

Q: Why choose Nexus Human for Implementing Cisco Enterprise Wireless Networks (ENWLSI)?

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 **PENPAL5** when booking your Implementing Cisco Enterprise Wireless Networks (ENWLSI) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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