Implementing Cisco Enterprise Wireless Networks v2 (ENWLSI)

Price	Duration	Delivery Methods
$3,295.00	5 Daytime Classes or 10 Evening Classes	Virtual, Private Group,

CAREER SKILLS+™

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 Bengaluru 17.6.3, Cisco Digital Network Architecture (DNA) Center Release 2.3.3, Cisco Prime Infrastructure Release 3.5, Cisco Spaces, Cisco CMX Release 10.5, features, and Cisco Identity Services Engine (ISE) Release 3.0.

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. This training also earns you 40 Continuing Education (CE) credits toward recertification.

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

Course Prerequisites

WLFNDU or equivalent knowledge or Implementing and Administering Cisco Solutions (CCNA)
Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR) training

Course Objectives

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

Agenda

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