
Implementing Cisco Enterprise Wireless Networks

DURATION: 5 DAYS

COURSE CODE: ENWLSI

FORMAT: LECTURE/LAB

COURSE DESCRIPTION

The Implementing Cisco Enterprise Wireless Networks (ENWLSI) v1.0 course gives you the knowledge and skills needed to secure wireless network infrastructure and troubleshoot any related issues. You'll learn how to implement and secure a wireless network infrastructure and use Cisco Identity Service Engine (ISE), Cisco Prime Infrastructure (PI), and Cisco Connect Mobile Experience to monitor and troubleshoot network issues.

The course provides hands-on labs to reinforce concepts including deploying Cisco Prime Infrastructure Release 3.5, Cisco Catalyst 9800 Wireless Controller Release IOS XE Gibraltar 16.10, Cisco Digital Network Architecture (DNA) Center Release 1.2.8, Cisco CMX Release 10.5, Cisco MSE Release 8.0 features and Cisco Identity Services Engine (ISE) Release 2.4.

This course also helps you prepare to take the Implementing Cisco Enterprise Wireless Networks (300-430 ENWLSI) exam, which is part of the new CCNP Enterprise certification and the Cisco Certified Specialist - Enterprise Wireless Implementation certification.

WHO SHOULD ATTEND

Wireless network engineers
Sales engineers
Network designers

PREREQUISITES

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

LEARNING OBJECTIVES

Implement network settings to provide a secure wireless network infrastructure

Troubleshoot security issues as it relates to the wireless network infrastructure

Implement a secure wireless client and troubleshoot wireless client connectivity issues

Implement and troubleshoot QoS in wireless networks
Implement and troubleshoot advanced capabilities in wireless network services

COURSE OUTLINE

1. Securing and Troubleshooting the Wireless Network Infrastructure
2. Implementing and Troubleshooting Secure Client Connectivity
3. Implementing and Troubleshooting QoS in Wireless Networks
4. Implementing and Troubleshooting Advanced Wireless Network Services

DISCOVERY LABS

- 1: Lab Familiarization (Base Learning Lab)
- 2: Configure Secure Management Access for WLCs and APs
- 3: Add Network Devices and External Resources to Cisco Prime Infrastructure
- 4: Capture a Successful AP Authentication
- 5: Implement AAA Services for Central Mode WLANs
- 6: Implement AAA Services for FlexConnect Mode WLANs
- 7: Configure Guest Services in the Wireless Network
- 8: Configure BYOD in the Wireless Network
- 9: Capture a Successful Client Authentications
- 10: Configure QoS in the Wireless Network for Voice and Video Services
- 11: Configure Cisco AVC in the Wireless Network
- 12: Capture Successful QoS Traffic Marking in the Wireless Network
- 13: Configure Detect and Locate Services on the Cisco CMX
- 14: Identify Wireless Clients and Security Threats