

# Implementing Cisco Enterprise Wireless Networks (ENWLSI) 1.0

## What you'll learn in this course

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, Cisco IOS XE Gibraltar 16.10, Cisco Digital Network Architecture (Cisco DNA™) Center Release 1.2.8, Cisco Connected Mobile Experiences (CMX) Release 10.5, Cisco Mobility Services Engine (MSE) Release 8.0 features, and Cisco 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. The exam will be available beginning February 24, 2020.

## Course duration

- Instructor-led training: 5 days with hands-on lab practice
- Virtual instructor-led training: 5 days of web-based classes with hands-on lab practice
- E-learning: Equivalent of 5 days of instruction with hands-on lab practice

## How you'll benefit

This course will help you:

- Implement and secure a Cisco wireless network infrastructure
- Use Cisco Identity Services Engine, Cisco Prime Infrastructure, and Cisco Connect Mobile Experience to monitor and troubleshoot network issues
- Validate your knowledge and prepare to take the Implementing Cisco Enterprise Wireless Networks (300-430 ENWLSI) exam

## Who should enroll

- Wireless network engineers
- Sales engineers
- Network designers

## How to enroll

- For instructor-led training, visit the [Cisco Learning Locator](#).
- For private group training, visit [Cisco Private Group Training](#).

## Technology areas

- Networking

- Wireless

## Course details

### Objectives

After taking this course, you should be able to:

- Implement network settings to provide a secure wireless network infrastructure
- Troubleshoot security issues as they relate 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

### Prerequisites

Before taking this course, you should have:

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

The following Cisco courses can help you gain the knowledge you need to prepare for this course:

- **Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR)**
- **Understanding Cisco Wireless Foundations (WLFNDU)**

### Outline

- Securing and Troubleshooting the Wireless Network Infrastructure
- Implementing and Troubleshooting Secure Client Connectivity
- Implementing and Troubleshooting Quality of Service (QoS) in Wireless Networks
- Implementing and Troubleshooting Advanced Wireless Network Services

### Lab Outline

- Lab Familiarization (Base Learning Lab)
- Configure Secure Management Access for Cisco Wireless LAN Controllers (WLCs) and Access Points (APs)
- Add Network Devices and External Resources to Cisco Prime Infrastructure
- Capture a Successful AP Authentication
- Implement Authentication, Authorization, and Accounting (AAA) Services for Central Mode WLANs
- Implement AAA Services for FlexConnect Mode Wireless LANs (WLANs)
- Configure Guest Services in the Wireless Network
- Configure Bring Your Own Device (BYOD) in the Wireless Network
- Capture Successful Client Authentications
- Configure QoS in the Wireless Network for Voice and Video Services
- Configure Cisco Application Visibility and Control (AVC) in the Wireless Network
- Capture Successful QoS Traffic Marking in the Wireless Network

- Configure, Detect, and Locate Services on the Cisco CMX
- Identify Wireless Clients and Security Threats



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ENWLSL1.0 C22-743302-00 01/20