

Designing Cisco Enterprise Wireless Networks (ENWLSD) v2.0

Course Acronym: ENWLSD
Certification: CCNP Enterprise
Course Length : 5 days

Course Content:

The Designing Cisco Enterprise Wireless Networks (ENWLSD) v2.0 course gives you the knowledge you need to design Cisco wireless networks. The course covers design specifics from scenario design concepts through the installation phase and into post-deployment validation.

This course , including the self-paced material, helps prepare you to take the exam, Designing Cisco Enterprise Wireless Networks (300-425 ENWLSD), which leads to to the CCNP® Enterprise and Cisco Certified Specialist – Enterprise Wireless Design certifications. This training also earns you 40 Continuing Education (CE) credits towards recertification.

Course Prerequisites

Before taking this course, you should have:

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

Either of the following combinations of Cisco courses can help you meet these prerequisites:

- Implementing Cisco Wireless Network Fundamentals (WIFUND) and Interconnecting Cisco Networking Devices, Part 1 (ICND1)
- Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR) and Understanding Cisco Wireless Foundations (WLFNDU)

Target Audience:

This course is for wireless engineers who work in the following roles:

- Consulting systems engineer
- Network administrator
- Network engineer
- Network manager
- Sales engineer
- Systems engineer
- Technical solutions architect
- Wireless design engineer
- Wireless engineer

Course Objectives:

After taking this course, you should be able to:

- Describe Cisco-recommended structured wireless design methodology
- Describe wireless industry standards, amendments, certifications, and Retain for Comments (RFCs)
- Examine the wireless technology
- Describe and implement Cisco enhanced wireless feature
- Describe Cisco mobility, roaming, and Work Group Bridges
- Describe the wireless design process
- Describe and implement specific wireless application designs
- Describe and implement specific wireless network vertical designs
- Describe and implement bridge and mesh designs in wireless networks
- Describe special considerations in advanced wireless designs
- Understand requirements to adapt a wireless network for Cisco Connected Mobile Experiences (CMX) and Cisco Spaces
- Describe site survey processes
- Describe third-party planning tools

- Describe and implement wireless network validation processes
- Describe and implement final phases of the design project

Course Outline:

- Structured Wireless Design Methodology
- Wireless Industry Protocols and Standards
- The Science of Wireless Technology
- Cisco Enhanced Wireless Features
- Cisco Mobility and Roaming
- Wireless Design Process
- Wireless Network Design for Specific Applications
- Wireless Network Designs for Specific Verticals
- Bridging and Mesh in Wireless Networks
- Special Considerations in Advanced Wireless Designs
- Cisco CMX and Cisco Spaces
- Site Survey Processes
- Wireless Network Design with Third-Party Tools
- Wireless Network Validation Processes
- Completing the Wireless Design Project

Labs Outline:

- Examine Ekahau Site Survey Predictive Fundamentals
- Create a Site Survey Report
- Design a Data Network in an Enterprise Environment
- Design a Voice and Data Network in a Healthcare Environment
- Convert an Enterprise Data Design to Include Voice
- Design a Voice and Data Network in a Warehouse Environment with Directional Antennas
- Review a Live Site Survey Using Ekahau Tools

- Simulate a Post Installation Network Validation Survey
- Analyze Layer 1 Data