



Designing Cisco Enterprise Wireless Network (ENWLSD) V2.0

***WHERE GREAT TRAINING
HAPPENS EVERYDAY!***



Designing Cisco Enterprise Wireless Network (ENWLSD) V2.0

Course Duration

5 Days

Course Price

\$4,295.00

43 CLCs

Methods of Delivery

In-Person ILT

Virtual ILT

Onsite ILT

About this Class

The Designing Cisco Enterprise Wireless Networks (ENWLSD) v2.0 training introduces you to concepts you need to know when planning advanced designs of Cisco wireless products. The training covers design specifics from scenario design concepts, through the installation phase, and into post-deployment validation. This training prepares you for the ENWLSD exam. If passed, you earn the Cisco Enterprise Wireless Design Specialist certification and satisfy the concentration exam requirement for the CCNP Enterprise certification. This training also earns you 40 Continuing Education (CE) credits toward recertification.

Designing Cisco Enterprise Wireless Network (ENWLSD) V2.0

How you will benefit

This class will help you:

- Learn how to successfully design Cisco Wireless Networks.
- Gain leading-edge skills for high-demand responsibilities focused on wireless networks.
- Earn 40 CE credits toward recertification.

Why Attend with Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The job roles best suited to the material in this course are:

- Consulting Systems Engineer
- Network Administrator
- Network Engineer
- Network Manager
- Sales Engineer
- Systems Engineer
- Technical Solutions Architect
- Wireless Design Engineer
- Wireless Engineer

Designing Cisco Enterprise Wireless Network (ENWLSD) V2.0

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

Designing Cisco Enterprise Wireless Network (ENWLSD) V2.0

Course Outline

Module 1: Structured Wireless Design Methodology

- Importance of Planning Wireless Design with a Structured Methodology
- Cisco Structured Design Model
- Cisco Design Guides and Cisco Validated Designs for Wireless Networks
- Role of the Project Manager When Designing Wireless Networks

Module 2: Wireless Industry Protocols and Standards

- Wireless Standards Bodies
- Institute of Electrical and Electronics Engineers (IEEE) 802.11 Standard and Amendments
- Wi-Fi Alliance (WFA) Certifications
- Relevant Internet Engineering Task Force (IETF) Wireless RFCs
- Practice Activity

Module 3: The Science of Wireless Technology

Module 4: Cisco Enhanced Wireless Features

- Hardware and Software Choices for a Wireless Network Design
- Cisco Infrastructure Settings for Wireless Network Design
- Cisco Enhanced Wireless Features

Module 5: Cisco Mobility and Roaming

- Mobility and Intercontroller Mobility in a Wireless Network
- Optimize Client Roaming in a Wireless Network
- WGB and WGB Roaming in a Wireless Network

Designing Cisco Enterprise Wireless Network (ENWLSD) V2.0

Course Outline

Module 6: Wireless Design Process

- Overview of Wireless Design Process
- Meet with the Customer to Discuss the Wireless Network Design
- Customer Information Gathering for a Wireless Network Design
- Design the Wireless Network
- Deployment of the Wireless Network
- Validation and Final Adjustments of the Wireless Network
- Wireless Network Design Project Documents and Deliverables

Module 7: Wireless Network Design for Specific Applications

Module 8: Designing Wireless Networks for Specific Vertical Designs

- Designs for Wireless Applications
- Wireless Network Design Within the Campus
- Extend Wireless Networks to the Branch Sites

Module 9: Bridging and Mesh in Wireless Networks

Module 10: Special Considerations in Advanced Wireless Designs

- High-Density Designs in Wireless Networks
- Introducing Location and CMX Concepts
- Design for Location
- FastLocate and HyperLocation
- Bridges and Mesh in a Wireless Network Design
- Redundancy and High Availability in a Wireless Network

Module 11: Cisco CMX and Cisco Spaces

Designing Cisco Enterprise Wireless Network (ENWLSD) V2.0

Course Outline

Module 12: Survey Processes

- Survey Types
- Special Arrangements Needed for Site Surveys
- Safety Aspects to be Considered During Site Surveys
- Site Survey Tools in Cisco Prime Infrastructure
- Third-Party Site Survey Software and Hardware Tools

Module 13: Wireless Network Design with Third-Party Tools

Module 14: Wireless Network Validation Processes

- Post-installation Wireless Network Validation
- Making Post-installation Changes to a Wireless Network
- Wireless Network Handoff to the Customer
- Installation Report

Module 15: Completing the Wireless Design Project

Designing Cisco Enterprise Wireless Network (ENWLSD) V2.0

Lab Outline

- **Lab 1:** Examine Ekahau Site Survey Predictive Fundamentals
- **Lab 2:** Create a Site Survey Report
- **Lab 3:** Design a Data Network in an Enterprise Environment
- **Lab 4:** Design a Voice and Data Network in a Healthcare Environment
- **Lab 5:** Convert an Enterprise Data Design to Include Voice
- **Lab 6:** Design a Voice and Data Network in a Warehouse Environment with Directional Antennas
- **Lab 7:** Review a Live Site Survey Using Ekahau Tools
- **Lab 8:** Simulate a Post Installation Network Validation Survey
- **Lab 9:** Analyze Layer 1 Data