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Learning Style: On Demand

Technology: Cisco

Difficulty: Intermediate

Course Duration: 40 Hours

Designing Cisco Enterprise Wireless Networks (ENWLSD) v2.0 - On Demand



About this course:

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 helps prepare you to take the Designing Cisco Enterprise Wireless Networks (300-425 ENWLSD) exam, which leads to the new CCNP® Enterprise and Cisco Certified Specialist – Enterprise Wireless Design certifications.

Course Objective:

After taking this course, you should be able to:

- Describe and implement a Cisco-recommended structured design methodology
- Describe and implement industry standards, amendments, certifications, and Requests For Comments (RFCs)
- Describe and implement Cisco enhanced wireless features
- Describe and implement the wireless design process
- Describe and implement specific vertical designs
- Describe and implement site survey processes
- Describe and implement network validation processes

Audience:

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

Prerequisite:

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)

Course Outline:

Describing and Implementing a 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

Describing and Implementing 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

Describing and Implementing Cisco Enhanced Wireless Features

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

Examining Cisco Mobility and Roaming

Mobility and Intercontroller Mobility in a Wireless Network
Optimize Client Roaming in a Wireless Network
Cisco Workgroup Bridge (WGB) and WGB Roaming in a Wireless Network

Describing and Implementing the 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

Describing and Implementing Specific Vertical Designs

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

Examining Special Considerations in Advanced Wireless Designs

High-Density Designs in Wireless Networks
Introducing Location and Cisco Connected Mobile Experiences (CMX) Concepts
Design for Location
FastLocate and HyperLocation
Bridges and Mesh in a Wireless Network Design
Redundancy and High Availability in a Wireless Network

Describing and Implementing the Site Survey Processes

Site 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

Describing and Implementing 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

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