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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



Course Information

About this course:

This course provides you the knowledge you need to design Cisco wireless networks. You will also learn design specifics from scenario design concepts through the installation phase and into post-deployment validation.

After completing this course you will be prepared to take the Designing Cisco Enterprise Wireless Networks (300-425 ENWLSD) exam, passing which will lead to the new CCNP® Enterprise and Cisco Certified Specialist – Enterprise Wireless Design certifications.

Course Objective:

Taking this course will enable you to:

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

Audience:

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

Prerequisite:

You should know the following before taking this course:

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

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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