Designing Cisco Enterprise Wireless Networks

Duration: 5 Days Course Code: ENWLSD Version: 1.1

Overview:

This Designing Cisco Enterprise Wireless Networks course (ENWLSD) gives you the knowledge you need to design Cisco wireless networks. The course covers design specifics from scenario design concepts through to 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 new CCNP Enterprise and Cisco Certified Specialist – Enterprise Wireless Design certifications.

Target Audience:

Individuals interested in gaining the knowledge needed to plan advanced designs of Cisco Wireless Products

Objectives:

- **After completing this course you should be able to:**
- Describe and implement a Cisco-recommended structured design methodology
- Describe and implement industry standards, amendments, certifications, and 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

Prerequisites:

Attendees should meet the following prerequisites:

- General knowledge of networks
- General knowledge of wireless networks
- Routing and switching knowledge
- CCNA - Implementing and Administering Cisco Solutions
- WLFNDU - Understanding Cisco Wireless Foundations
- ENCOR - Implementing and Operating Cisco Enterprise Network Core Technologies

Testing and Certification

Recommended as preparation for the following exams:

- **300-425** -ENWLSD - Designing Cisco Enterprise Wireless Networks Passing this exam will provide you with the Cisco Certified Specialist - Enterprise Wireless Design Certification and count towards the New CCNP Enterprise Certification - To achieve the new CCNP Enterprise Certification you will also need the CCNP Enterprise Core Exam.

Follow-on-Courses:

- ENWLSI - Implementing Cisco Enterprise Wireless Networks

Content:

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

Labs:

- Use Cisco Prime Infrastructure as a Design Tool
- Create a Predictive Site Survey with Ekahau Pro
- Perform a Live Site Survey Using Access Point on a Stick (APoS)
- Simulate a Post-installation Network Validation Survey

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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