Designing Cisco Enterprise Wireless Networks

Course ID #: 7000-947-ZZ-Z
Hours: 35

Course Content

Course Description:

The Designing Cisco Enterprise Wireless Networks (ENWLSD)v1.1 is a 5-day course that 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 the CCNP Enterprise and Cisco Certified Specialist Enterprise Wireless Design certifications. The course qualifies for 40 Cisco Continuing Education credits (CE) towards recertification.

Course Objectives:

- 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

Prerequisites:

- 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)
- Coming soon: Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR) and Understanding Cisco Wireless Foundations (WLFNDU)

Target Audience:

- 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 Networks

Course ID #: 7000-947-ZZ-Z

Hours: 35

Topics:

Lesson 1: 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

Lesson 2: 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

Lesson 3: 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

Lesson 4: 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

Lesson 5: 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

Lesson 6: Describing and Implementing Specific Vertical Designs

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

Lesson 7: 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

Lesson 8: 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

Designing Cisco Enterprise Wireless Networks

Course ID #: 7000-947-ZZ-Z
Hours: 35

Lesson 9: 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

Register for this class by visiting us at:
www.tcworkshop.com or calling us at 800-639-3535

Designing Cisco Enterprise Wireless Networks

Course ID #: 7000-947-ZZ-Z
Hours: 35

NASBA Information

Level: Intermediate
Attendance Requirement: To be awarded the full credit hours, you must sign in and attend the entire course.
Fields: Computer Software & Applications
CPEs: 39

Policies: Course Registration, Cancellation, Refund and Complaint Resolution
For more information regarding administrative policies such as complaint and refund, please contact our offices at 800-639-3535 or visit us at: **www.tcworkshop.com**

Official National Registry Statement:
The Computer Workshop is registered with the National Association of State Boards of Accountancy (NASBA) as a sponsor of continuing professional education on the National Registry of CPE Sponsors. State boards of accountancy have final authority on the acceptance of individual courses for CPE credits. Complaints regarding registered sponsors may be submitted to the National Registry of CPE Sponsors through its website: www.nasbaregistry.org

NOTE: Since our information is in multiple places on our web site or in PDF format that is sent to clients, we have provided our normal course content with the NASBA Information added along with links to our policy page on the web. We will add our name to the Official National Registry Statement after we are approved.