Designing Cisco Enterprise Wireless Networks v1.1

- 5 Days
- Lecture and Hands-on Labs

Course Overview

The Designing Cisco Enterprise Wireless Networks (ENWLSD) v1.1 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, 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.

Review this course online at https://www.alta3.com/courses/enwlsd

Who Should Attend

- Consulting systems engineer
- Network administrator
- Network engineer
- Network manager

What You'll Learn

- Apply Cisco's Structured Wireless Design Methodology
- Integrate Enhanced Features, Standards, and Mobility
- Design for Verticals, High Density, and Location Services
- Validate Deployments with Site Surveys and Real-World Tools

Outline

Module 1: Describing and Implementing a Structured Wireless Design Methodology

1. Importance of Planning Wireless Design with a Structured Methodology
2. Cisco Structured Design Model
3. Cisco Design Guides and Cisco Validated Designs for Wireless Networks
4. Role of the Project Manager When Designing Wireless Networks

Module 2: Describing and Implementing Industry Protocols and Standards

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

Module 3: Describing and Implementing Cisco Enhanced Wireless Features

10. Hardware and Software Choices for a Wireless Network Design
11. Cisco Infrastructure Settings for Wireless Network Design
12. Cisco Enhanced Wireless Features

Module 4: Examining Cisco Mobility and Roaming

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

Module 5: Describing and Implementing the Wireless Design Process

16. Overview of Wireless Design Process
17. Meet with the Customer to Discuss the Wireless Network Design
18. Customer Information Gathering for a Wireless Network Design
19. Design the Wireless Network
20. Deployment of the Wireless Network
21. Validation and Final Adjustments of the Wireless Network
22. Wireless Network Design Project Documents and Deliverables

Lab Outline

1. Review Cisco Enhanced Wireless Features
2. Design a Wireless Network
3. Design a Wireless Network for a Specific Vertical
4. Design a Wireless Network that Extends Beyond the Campus
5. Use Cisco Prime Infrastructure as a Design Tool
6. Create a Predictive Site Survey with Ekahau Pro
7. Review a Live Site Survey Using Access Point on a Stick (APoS)
8. Simulate a Post-installation Network Validation Survey

Prerequisites

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