COMPUTER LEARNING CENTRE
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CISCO PARTNER Learning

Training overview

Designing Cisco Enterprise Wireless Networks (ENWLSD)

Description

The **Designing Cisco Enterprise Wireless Networks (ENWLSD)** training introduces you to concepts you need to know when planning advanced designs of Cisco wireless products. The training covers design specifics from scenario design concepts, through the installation phase, and into post-deployment validation.

This training prepares you for the 300-425 ENWLSD v1.1 exam. If passed, you earn the Cisco Certified Specialist - Enterprise Wireless Design certification and satisfy the concentration exam requirement for the Cisco Certified Network Professional (CCNP) Enterprise certification. This training also earns you 40 Continuing Education (CE) credits toward recertification.

How you'll benefit

This training will help you:

- Learn how to successfully design Cisco wireless networks
- Gain leading-edge skills for high-demand responsibilities focused on wireless networks
- Prepare for the 300-425 ENWLSD v1.1 exam
- Earn 40 CE credits toward recertification

Who should enroll

- Network Engineers
- Systems Engineers
- Wireless Engineers
- Consulting Systems Engineers
- Technical Solutions Architects
- Network Administrators
- Wireless Design Engineers
- Network Managers

Technology areas

- Networking
- Wireless

Objectives

- Describe Cisco-recommended structured wireless design methodology
- Describe wireless industry standards, amendments, certifications, and retain for comments (RFCs)
- Examine the wireless technology
- Describe and implement Cisco enhanced wireless feature
- Describe Cisco mobility, roaming, and workgroup bridges
- Describe the wireless design process
- Describe and implement specific wireless application designs
- Describe and implement specific wireless network vertical designs
- Describe and implement bridge and mesh designs in wireless networks
- Describe special considerations in advanced wireless designs
- Understand requirements to adapt a wireless network for Cisco Connected Mobile Experiences (CMX) and Cisco Spaces
- Describe site survey processes
- Describe third-party planning tools
- Describe and implement wireless network validation processes
- Describe and implement final phases of the design project

Prerequisites

Thereareno prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

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

These skills can be found in the following Cisco Learning Offerings:

- Understanding Cisco Wireless Foundations (WLFNDU)
- Implementing and Administering Cisco Solutions (CCNA)

Outline

- Structured Wireless Design Methodology
- Wireless Industry Protocols and Standards
- The Science of Wireless Technology
- Cisco Enhanced Wireless Features
- Cisco Mobility and Roaming
- Wireless Design Process
- Wireless Network Design for Specific Applications
- Designing Wireless Networks for Specific Vertical Designs

- Bridging and Mesh in Wireless Networks
- Special Considerations in Advanced Wireless Designs
- Cisco CMX and Cisco Spaces
- Survey Processes
- Wireless Network Design with Third-Party Tools
- Wireless Network Validation Processes
- Completing the Wireless Design Project

Lab Outline

- Examine Ekahau Site Survey Predictive Fundamentals
- Create a Site Survey Report
- Design a Data Network in an Enterprise Environment
- Design a Voice and Data Network in a Healthcare Environment
- Convert an Enterprise Data Design to Include Voice
- Design a Voice and Data Network in a Warehouse Environment with Directional Antennas
- Review a Live Site Survey Using Ekahau Tools
- Simulate a Post Installation Network Validation Survey
- Analyze Layer 1 Data

What to expect on the exam

Designing Cisco Enterprise Wireless Networks (300-425 ENWLSD) v1.1 is a 90-minute exam associated with the Cisco Certified Specialist – Enterprise Wireless Design certification and satisfies the concentration exam requirement for the CCNP Enterprise certification.

The multiple-choice format tests knowledge of wireless network design, including:

- Site surveys
- Wired and wireless infrastructure
- Mobility
- Wireless local area network (WLAN) high availability