ENWLSD - DESIGNING CISCO ENTERPRISE WIRELESS NETWORKS V2.0

Course Code: 100479

Plan advanced designs for Cisco wireless networks and products.

The *ENWLSD - Designing Cisco Enterprise Wireless Networks v2.0* course prepares you to take the Designing Cisco Enterprise Wireless Networks (300-425 ENWLSD) exam which leads to the new CCNP Enterprise and Cisco Certified Specialist – Enterprise Wireless Design certifications. You will gain the knowledge you need to plan advanced designs of Cisco wireless products and qualify for professional-level job roles in wireless networking.

This course is eligible for 40 Continuing Education Credits (ILT & ELT Modality).

What You'll Learn

After taking this course, you should be able to:

- 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

Who Needs to Attend

This course is for wireless engineers who work in the following roles:

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

- Wireless design engineer
- Wireless engineer

Prerequisites

Before taking this course, you should have:

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

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CLASSROOM LIVE	$4,295 USD	5 Day

Classroom Live 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

Classroom Live 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

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VIRTUAL CLASSROOM LIVE	$4,295 USD	5 Day

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  - Relevant Internet Engineering Task Force (IETF) Wireless RFCs
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Jan 5 - 9, 2026 | 8:30 AM - 4:30 PM EST

Jun 8 - 12, 2026 | 8:30 AM - 4:30 PM EDT

Sep 14 - 18, 2026 | 8:30 AM - 4:30 PM EDT

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ON-DEMAND	$800 USD

On-Demand Outline

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PRIVATE GROUP TRAINING	5 Day

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

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