

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

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5 Day

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- ☒ Deployment of the Wireless Network
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- ☒ Wireless Network Design Project Documents and Deliverables
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 - ☒ Designs for Wireless Applications
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Jun 23 - 27, 2025 | 8:30 AM - 4:30 PM EDT

Aug 4 - 8, 2025 | 8:30 AM - 4:30 PM EDT

Oct 6 - 10, 2025 | 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

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Date created: 3/14/2025 3:46:02 AM

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