



## Designing Cisco Enterprise Wireless Networks (ENWLSD)

Cisco

- **Nível:** Avançado
  - **Duração:** 35h
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### Sobre o curso

The **Designing Cisco Enterprise Wireless Networks** (ENWLSD) 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 new **CCNP® Enterprise** and **Cisco Certified Specialist – Enterprise Wireless Design** certifications.

This course will help you:

- Gain the knowledge you need to plan advanced designs of Cisco wireless products
- Qualify for professional-level job roles in wireless networking
- Prepare for the **Designing Cisco Enterprise Wireless Networks** (300-425 ENWLSD) exam

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
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### Destinatários

Individuals interested in gaining the knowledge needed to plan advanced designs of Cisco Wireless

Products:

- Consulting systems engineer
  - Network administrator
  - Network engineer
  - Network manager
  - Sales engineer
  - Systems engineer
  - Technical solutions architect
  - Wireless design engineer
  - Wireless engineer
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## Pré-requisitos

Before taking this course, you should have:

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

The following Cisco courses can help you meet these prerequisites:

- Implementing and Administering Cisco Solutions (CCNA)
  - Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR)
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## Metodologia

- Instructor-led training: 5 days in the classroom with hands-on lab practice
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## Programa

- Describing and Implementing a Structured Wireless Design Methodology
- Describing and Implementing Industry Protocols and Standards
- Describing and Implementing Cisco Enhanced Wireless Features
- Examining Cisco Mobility and Roaming
- Describing and Implementing the Wireless Design Process
- Describing and Implementing Specific Vertical Designs
- Examining Special Considerations in Advanced Wireless Designs

- Describing and Implementing the Site Survey Processes
- Describing and Implementing Wireless Network Validation Processes

### **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
- IEEE 802.11 Standard and Amendments
- WFA Certifications
- Relevant 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
- 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 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

### **Labs:**

- Use Cisco Prime Infrastructure as a Design Tool
- Create a Predictive Site Survey with Ekahau Pro
- Perform a Live Site Survey Using AP on a Stick
- Stimulate a Post-installation Network Validation Survey