Objetivos

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

Pre-requisitos

Before taking this course, you should have:

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

Either of the following combinations of Cisco courses can help you meet these prerequisites:

- **Implementing Cisco Wireless Network Fundamentals** (WIFUND) and **Interconnecting Cisco Networking Devices, Part 1** (ICND1)
- Coming soon: **Implementing and Operating Cisco Enterprise Network Core Technologies** (ENCOR) and **Understanding Cisco Wireless Foundations** (WLFNDU)

Contenido

- Describing and Implementing a Structured Wireless Design Methodology
    - o Importance of Planning Wireless Design with a Structured Methodology
    - o Cisco Structured Design Model

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- o Cisco Design Guides and Cisco Validated Designs for Wireless Networks
- o Role of the Project Manager When Designing Wireless Networks
- Describing and Implementing Industry Protocols and Standards
    - o Wireless Standards Bodies
    - o Institute of Electrical and Electronics Engineers (IEEE) 802.11 Standard and Amendments
    - o Wi-Fi Alliance (WFA) Certifications
    - o Relevant Internet Engineering Task Force (IETF) Wireless RFCs
    - o Practice Activity
- Describing and Implementing Cisco Enhanced Wireless Features
    - o Hardware and Software Choices for a Wireless Network Design
    - o Cisco Infrastructure Settings for Wireless Network Design
    - o Cisco Enhanced Wireless Features
- Examining Cisco Mobility and Roaming
    - o Mobility and Intercontroller Mobility in a Wireless Network
    - o Optimize Client Roaming in a Wireless Network
    - o Cisco Workgroup Bridge (WGB) and WGB Roaming in a Wireless Network
- Describing and Implementing the Wireless Design Process
    - o Overview of Wireless Design Process
    - o Meet with the Customer to Discuss the Wireless Network Design
    - o Customer Information Gathering for a Wireless Network Design
    - o Design the Wireless Network
    - o Deployment of the Wireless Network
    - o Validation and Final Adjustments of the Wireless Network
    - o Wireless Network Design Project Documents and Deliverables
- Describing and Implementing Specific Vertical Designs
    - o Designs for Wireless Applications
    - o Wireless Network Design Within the Campus
    - o Extend Wireless Networks to the Branch Sites
- Examining Special Considerations in Advanced Wireless Designs
    - o High-Density Designs in Wireless Networks
    - o Introducing Location and Cisco Connected Mobile Experiences (CMX) Concepts
    - o Design for Location
    - o FastLocate and HyperLocation
    - o Bridges and Mesh in a Wireless Network Design

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- o Redundancy and High Availability in a Wireless Network
- Describing and Implementing the Site Survey Processes
  - o Site Survey Types
  - o Special Arrangements Needed for Site Surveys
  - o Safety Aspects to be Considered During Site Surveys
  - o Site Survey Tools in Cisco Prime Infrastructure
  - o Third-Party Site Survey Software and Hardware Tools
- Describing and Implementing Wireless Network Validation Processes
  - o Post-installation Wireless Network Validation
  - o Making Post-installation Changes to a Wireless Network
  - o Wireless Network Handoff to the Customer
  - o Installation Report

Laboratorio

- Review Cisco Enhanced Wireless Features
- Design a Wireless Network
- Design a Wireless Network for a Specific Vertical
- Design a Wireless Network that Extends Beyond the Campus (ILT output)
- Use Cisco Prime Infrastructure as a Design Tool
- Create a Predictive Site Survey with Ekahau Pro
- Review a Live Site Survey Using Access Point on a Stick (APoS)
- Simulate a Post-installation Network Validation Survey

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