

DESIGNING CISCO WIRELESS ENTERPRISE NETWORKS (WIDESIGN)

Temario

This course is focused on the design of a Cisco Wireless Network. Students will learn the steps required from initial customer contact to post deployment activities. Labs are used to reinforce design concepts along with various tools that assist in wireless design and management. Students are expected to have between 3 to 5 years of experience.

Pre-requisitos

Attendees should meet the following pre-requisites:

- ICND1 - Interconnecting Cisco Networking Devices Part 1
- WIFUND - Implementing Cisco Wireless Network Fundamentals
- Basic Knowledge of the following is also recommended: Cisco Prime Infrastructure, Cisco Identity Services Engine, Metageek Channelizer Software, Voice Signalling Protocol, Basic QoS, Application Visibility and Control, LAN Switching.

Objetivos del curso

After attending this course you should be able to:

- Determine customer Wi-Fi design process
- Design for data coverage
- Design for voice and real-time applications
- Design for location and Cisco CMX
- Design for Wi-Fi beyond the enterprise campus
- Describe how to conduct a site survey

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Individuals involved in the planning and design of Cisco Wireless Networks.

Contenido

Determine Customer Wi-Fi Design Process

- Determining Customer Design Technical and Business Objectives
- Determining the Type of Wireless Design
- Gathering Existing Documentation and Important Information
- Meeting with the Customer

Design for Data Coverage

- Describing Common Business and Technical Drivers
- Describing Cisco Capabilities
- Planning and Designing for RF
- Describing Deployment Models
- Describing Campus Considerations
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Design for Voice and Real-Time Applications

- Describing Common Business and Technical Drivers
- Describing Cisco Capabilities
- Describing RF Planning and Design
- Describing Cisco AVC and QoS

Design for Location and Cisco CMX

- Describing Common Business and Technical Drivers
- Describing Cisco Capabilities
- Describing RF Planning and Design
- Cisco CMX Ecosystem Analytics and Development

Design for Wi-Fi Beyond the Enterprise Campus

- Describing Common Business and Technical Drivers
- Describing Cisco Capabilities
- Describing RF Planning and Design

Conduct a Site Survey

- Describing Access and Safety Concerns
- Describing the Initial Evaluation
- Describing Predictive Planning
- Describing the In-Depth Site Survey
- Describing the Postdeployment Survey

Case Studies

- Case Study 1: Project Kickoff
- Case Study 2: Base Wi-Fi Design Recommendations
- Case Study 3: Voice and Real-Time Application Wi-Fi Design Recommendations
- Case Study 4: Location and Cisco CMX Wi-Fi Design Recommendations
- Case Study 5: Outdoor and High-Density Wi-Fi Design Recommendations
- Case Study 6: After Implementation

Labs

- Discovery 1: Estimating the Number of APs Using Cisco Prime Infrastructure as a Planning Tool
- Discovery 2: Conducting a Predictive Site Survey with Ekahau Site Survey Pro
- Discovery 3: Simulating a Layer 1 Sweep with Cisco Spectrum Expert
- Discovery 4: Simulating a Layer 1 Sweep with Metageek Chanalyzer