



WIDESIGN - DESIGNING CISCO WIRELESS ENTERPRISE NETWORKS V1.1

Course Code: 4390

Learn how to design a Cisco wireless network from initial customer contact to post-deployment activities. This course is required training to achieve CCNP Wireless certification.

In this course, you will learn how to design a Cisco wireless network from initial customer contact to post-deployment activities. In addition, you will learn to use the appropriate tools to assist in wireless design and management. This course is targeted toward wireless network engineers with at least three years of experience in the networking field.

The Cisco CCNP Wireless certification addresses the need for designing, implementing, and operating Cisco wireless networks and mobility infrastructures. CCNP Wireless certification emphasizes wireless networking principles and theory.

Note: For the classroom version of this course, laptops are provided to participate in the hands-on labs. If you are attending the virtual version or desire to use your own laptop, please bring a laptop computer with an Ethernet port as well as an internal wireless NIC, 802.11a/b/g/n. Access to the remote labs requires a browser that supports Java and permissions to open RDP or encrypted (RDP443) RDP sessions. If your browser does not support Java, you will need administrator rights to the laptop to install the software.

What You'll Learn

- 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
- How to conduct a site survey

Who Needs to Attend

Wireless network engineers with at least three years of experience in the networking field.

Prerequisites

Basic knowledge of the following:

- Cisco Prime Infrastructure
- Cisco Identity Services Engine
- Metageek Channelizer Software
- Voice Signaling Protocol
- Basic QoS
- Application Visibility and Control
- LAN Switching



Global Knowledge.

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CLASSROOM LIVE

\$4,674 CAD

5 days

Classroom Live Outline

1. Determine Customer Wi-Fi Design Process

- Customer Design Technical and Business
- Type of Wireless Design
- Gathering Existing Documentation and Important Information
- Meeting with the Customer
- Case Study 1: Project Kickoff

2. Design for Data Coverage

- Common Business and Technical Drivers
- Cisco Capabilities
- Planning and Designing for RF
- Deployment Models
- Campus Considerations
- Case Study 2: Base Wi-Fi Design Recommendations

3. Design for Voice and Real-Time Applications

- Common Business and Technical Drivers
- Cisco Capabilities
- RF Planning and Design
- Cisco AVC and QoS
- Case Study 3: Voice and Real-Time Application Wi-Fi Design Recommendations

4. Design for Location and Cisco CMX

- Common Business and Technical Drivers
- Cisco Capabilities
- RF Planning and Design
- Cisco CMX Ecosystem Analytics and Development
- Case Study 4: Location and Cisco CMX Wi-Fi Design Recommendations

5. Design for Wi-Fi Beyond the Enterprise Campus

- Common Business and Technical Drivers
- Cisco Capabilities
- RF Planning and Design
- Case Study 5: Outdoor and High-Density Wi-Fi Design Recommendations

6. Conduct a Site Survey

- Access and Safety Concerns
- Initial Evaluation
- Predictive Planning
- In-Depth Site Survey
- Post-Deployment Survey
- 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
- Case Study 6: After Implementation



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VIRTUAL CLASSROOM LIVE

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5 days

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ON-DEMAND

\$975 CAD

On-Demand Outline

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- Case Study 1: Project Kickoff

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PRIVATE GROUP TRAINING

5 days

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