

Designing Cisco Wireless Enterprise Networks (CS-WIDESIGN)

Modality: Virtual Classroom

Duration: 3.5 Days

CLC: 30 Units

About this course:

The Designing Cisco Wireless Enterprise Networks is a 5 days course that has been produced for experienced system engineers interested in implementing and exploring the innovation of wireless networking. Understudies won't just be presented to the correct technologies and tools required for implementing, managing, designing, and maintaining wireless networks, however, the course will also cover the infrastructures of mobility, basically making it perfect for IT operations training.

With attention to both the principles and theory of wireless networking, the course of designing Cisco wireless networks is ideal for anybody interested in taking the forward step with wireless innovations.

Course objectives:

This course has been planned to:

- Introduce understudies to the structure process for wireless networks.
- Assist understudies with understanding the basics of location services, data coverage, and Cisco Connected Mobile Experiences
- Describe how voice and real-time applications function and can be executed
- Walk understudies through the means that should be taken to design various periods of the system from initial contact to post-deployment
- Walkthrough understudies the way toward conducting site studies
- Help extend the horizons of the engineers of the wireless network, allowing them to structure inventive networks.

Audience:

The designed audience for the course of Designing Cisco Wireless Enterprise Networks is seasoned engineers of the wireless network who are interested in discovering wireless innovations further.

Prerequisites:

Minimum 3 years of involvement with the networking field.

Experience and knowledge in LAN switching, Cisco AVC, Cisco Identity Services Engine, Cisco Prime Infrastructure, Voice Signaling Protocol, and Quality of Service in the domain of networking.

Course Outline:

Module 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

Module 2: Design for Data Coverage

- Common Business and Technical Drivers
- Cisco Capabilities
- Planning and Designing for RF
- Deployment Models
- Campus Considerations

Module 3: Design for Voice and Real-Time Applications

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

Module 4: Design for Location and Cisco CMX

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

Module 5: Design for Wi-Fi Beyond the Enterprise Campus

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

Module 6: Conduct a Site Survey

- Access and Safety Concerns
- Initial Evaluation
- Predictive Planning
- In-Depth Site Survey
- Post-Deployment Survey

Labs

- 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
- 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