Designing Cisco Wireless Enterprise Networks - On Demand (WIDESIGN 1.1)

Modality: On Demand

Duration: 28 Hours

CLC: 8 Units

About this course:

Increase your knowledge of Cisco products and technologies with e-learning given from Cisco and Cisco's approved learning accomplices. The courses of E-learning target a collection of Cisco innovations to set you up for certification exams of Cisco, and to gain product knowledge of Cisco. The e-learning offerings are designed to be engaging and interactive for students who interested in self-study.

Some Self-paced courses of Cisco give access to hands-on virtual lab practices, providing you the chance to exercise troubleshooting and configuration on Cisco's real platform.

Course objectives:

- Customer Design Technical and Business
- Type of Wireless Design
- Gathering Existing Documentation and Important Information
- Meeting with the Customer
- Common Business and Technical Drivers
- Planning and Designing for RF
- Deployment Models, Cisco Capabilities, and Campus Considerations
- Voice and Real-Time Application Wi-Fi Design Recommendations
- Estimating the Number of APs Using Cisco Prime Infrastructure as a Planning Tool
- Conducting a Predictive Site Survey with Ekahau Site Survey Pro

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