WIDEPLOY: Deploying Cisco Wireless Enterprise Networks

Course ID #: 1575-990-ZZ-W

Hours: 35

Course Content

Course Description:

In Deploying Cisco Wireless Enterprise Networks (WIDEPLOY), you will learn how to deploy wireless networks using Cisco controller and unified switching architectures policies and best practices, as well as ensure the proper implementation of mobility standards and proper configuration of all aspects of wireless components. Hands-on labs reinforce concepts taught, including deployment of Cisco AireOS 8.0, Cisco Prime Infrastructure Release 2.2, as well as the Cisco Mobility Services Engine Release 8.0 features.

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.

At Course Completion:

Upon course completion, you will learn:

- Deploy a Wi-Fi infrastructure
- Configure advanced capabilities in data designs
- Configure advanced capabilities in voice and real-time application designs
- Configure advanced capabilities in location designs
- Configure advanced capabilities in outdoor and high-density designs

Prerequisites:

- At least three years of experience in the networking field
- ICND1 v2.0: Interconnecting Cisco Networking Devices, Part 1
- WIFUND: Implementing Cisco Wireless Network Fundamentals v1.0

Target Student:

This course is intended for Wireless network engineers

Deliver Method:

This course is delivered through a mix of instructor-led training (ILT) and hands-on labs.

Topics:

Module 1: Deploy a Wi-Fi Infrastructure
- Preparing for the Deployment
- Determining the Type of Wireless Design
- Planning the Base Wi-Fi Network Implementation
- Implementing the Base Wi-Fi Network

Module 2: Configure Advanced Capabilities in Data Designs
- Configuring Mobility and Roaming Capabilities
- Configuring High Availability Options
- Configuring FlexConnect Capabilities

Module 3: Configure Advanced Capabilities in Voice and Real- Time Application Designs
- Configuring QoS and AVC
- Configuring Multicast

Module 4: Configure Advanced Capabilities in Location Designs
- Configuring Location and Context-Aware Service on Cisco MSE
- Configuring Cisco CMX

Module 5: Configure Advanced Capabilities in Outdoor and High-Density Designs
- Configuring Outdoor and Mesh Capabilities
- Configuring High-Density Capabilities

Labs
- Lab 1: Separate Traffic Using VLANs and AP Groups
- Lab 2: Implement Wireless LAN Controller Failover in Cisco AireOS
- Lab 3: Perform a Branch Office Deployment with FlexConnect APs
- Lab 4: Implement New Mobility
- Lab 5: Configure Converged Access Mobility Parameters
- Lab 6: Configure a WLAN to Support AVC
- Lab 7: Configure a WLAN to Support QoS
- Lab 8: Enable Multicast Tuning (Video Connect)
- Lab 9: Configure mDNS
- Lab 10: Configure High-Density Environments
- Lab 11: Configure Indoor Mesh
- Lab 12: Configure Workgroup Bridging