Designing Cisco Wireless Enterprise Networks v1.0 (WIDEPLOY)

Course Number: 13388  
Category: Technical Cisco  
Duration: 5 days  
Certification: CCNP Wireless

Overview
The goal of Deploying Cisco Wireless Enterprise Networks (WIDEPLOY) is to provide network professionals with the information to prepare them 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. WIDEPLOY reinforces the instruction by providing students with hands-on labs to ensure students thoroughly understand concepts taught which include deploying Cisco AireOS 8.0, Cisco Prime Infrastructure Release 2.2, and Cisco Mobility Services Engine Release 8.0 features. WIDEPLOY is targeted toward wireless network engineers with 3-5 years of experience in the networking field.

The Designing Cisco Wireless Enterprise Networks (WIDEPLOY) course is a 5 day course, designed to help students prepare for the CCNP Wireless certification, a Professional level certification specializing in the wireless field.

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.

Objectives
Lesson objectives help students become comfortable with the course, and also provide a means to evaluate learning. Upon successful completion of this course, students will be able to:

- 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
To ensure the successful completion of WIDEPLOY we recommend completion of one of the following courses, or equivalent knowledge:

- CCNA Route / Switch Certification
- Implementing Cisco Wireless Network Fundamentals v1.0 (WIFUND)
- Designing Cisco Wireless Enterprise Networks v1.0 (WIDESIGN)
### Outline

#### Module 1: Deploy a Wi-Fi Infrastructure
- Lesson 1: Preparing for the Deployment
- Lesson 2: Determining the Type of Wireless Design
- Lesson 3: Planning the Base Wi-Fi Network Implementation
- Lesson 4: Implementing the Base Wi-Fi Network

#### Module 2: Configure Advanced Capabilities in Data Designs
- Lesson 1: Configuring Mobility and Roaming Capabilities
- Lesson 2: Configuring High Availability Options
- Lesson 3: Configuring FlexConnect Capabilities
- Guided Lab 1: Separate Traffic Using VLANs and AP Groups
- Guided Lab 2: Implement Wireless LAN Controller Failover in Cisco AireOS
- Guided Lab 3: Perform a Branch Office Deployment with FlexConnect APs
- Guided Lab 4: Implement New Mobility
- Guided Lab 5: Configure Converged Access Mobility Parameters

#### Module 3: Configure Advanced Capabilities in Voice and Real-Time Application Designs
- Lesson 1: Configuring QoS and AVC
- Lesson 2: Configuring Multicast
- Guided Lab 6: Configure a WLAN to Support AVC
- Guided Lab 7: Configure a WLAN to Support QoS
- Guided Lab 8: Enable Multicast Tuning (Video Connect)
- Guided Lab 9: Configure mDNS

#### Module 4: Configure Advanced Capabilities in Location Designs
- Lesson 1: Configuring Location and Context-Aware Service on Cisco MSE
- Lesson 2: Configuring Cisco CMX

#### Module 5: Configure Advanced Capabilities in Outdoor and High-Density Designs
- Lesson 1: Configuring Outdoor and Mesh Capabilities
- Lesson 2: Configuring High-Density Capabilities
- Guided Lab 10: Configure High-Density Environments
- Guided Lab 11: Configure Indoor Mesh
- Guided Lab 12: Configure Workgroup Bridging