



Conducting Cisco Unified Wireless Site Survey (CUWSS) v2.0

This course is designed to help you prepare for the Cisco CCNP® Wireless certification, a professional certification specializing in the wireless field. The course is a component of the proposed CCNP Wireless curriculum. It is designed to give you a firm understanding of how to conduct a site survey, and it explores WLAN topologies for voice and data as well as Cisco Context-Aware Services.

Course Objectives

Upon completing this course, the student will be able to meet these objectives:

- Collect information for the site survey
- Prepare and plan for the site survey
- Perform a site survey for data, voice, and location applications
- Design the RF network for data, voice, and location applications
- Assess the deployment of the WLAN

Who Should Attend

The primary audience for this course is as follows:

- Technical Engineers and IT professionals tasked with performing or overseeing site surveys for wireless LAN solution implementations

Prerequisites

The knowledge and skills that a learner must have before attending this course are as follows:

- Interconnecting Cisco Networking Devices Part 1 (ICND1)
- Interconnecting Cisco Networking Devices Part 2 (ICND2)
- Implementing Cisco Unified Wireless Networking Essentials (IUWNE) v2.0
- Knowledge of the Cisco Lifecycle deployment
- Basic knowledge of wireless standards (IEEE), wireless regulator environment (FCC, ETSI, and so on), and wireless certification organization (Wi-Fi Alliance)

Course Outline

Module 1: Collect Information for the Site Survey

- Customer requirements
- Site survey requirements for different vertical industries
- Design coverage for specific applications and client devices
- Design outdoor coverage
- Regulatory issues
- Safety and aesthetic requirements

Module 2: Prepare and Plan for the Site Survey

- Conduct a kickoff meeting
- Conduct an initial walkthrough
- Specify the tools necessary to complete a site survey
- Choose the hardware for the deployment
- Choose the right antenna for the deployment and the site survey
- Finalize logistical considerations

Module 3: Conduct the Site Survey

- Estimate the AP number and density using a planning tool
- Conduct a Layer 1 site survey
- Conduct a Layer 2 site survey for data
- Conduct a Layer 2 site survey for voice and video applications
- Conduct a Layer 2 site survey for location

Module 4: Design the RF Network

- Infrastructure hardware requirements for the WLAN
- Effect of WLAN on the infrastructure
- WLAN equipment and licenses
- Design the outdoor mesh network



Associated Certifications

CCNP Wireless

Required Exam(s)

642-731

Price

\$3,495.00

Duration

5 days

Methods of Delivery

- Instructor Led
- Distance Learning
- On-Site

Module 5: Assessment of the Deployment

- Verify WLAN readiness
- Verify the RF coverage onsite
- Verify the RF performance
- Verify mesh performance
- Present an installation report

LABS

- Collecting Information for the Site Survey
- Analyzing a Virtual Walkthrough
- Conducting a Walkthrough
- Estimating the AP Number Using a Planning Tool
- Conducting a Layer 1 Sweep with Cisco Spectrum Expert
- Locating an Interfering Device
- Conducting a Site Survey for Data with Ekahau Site Survey Tool
- Conducting a Site Survey for VoWLAN with Ekahau Site Survey Tool
- Wireless Network Design Game
- Performing a Floor Calibration