



# CUWSS: Conducting Cisco Unified Wireless Site Survey v2.0

Course ID#: 1575-968-ZZ-W

Hours: 35

## Course Content

### Course Description:

Our Conducting Cisco Unified Wireless Site Survey 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. The CUWSS course is a component of the CCNP-Wireless curriculum. The CUWSS course is designed to give students a firm understanding of how to conduct a site survey and explores WLAN topologies for voice and data as well as location appliance services. Students will explore design strategies, including Cisco WCS planning tool, Cisco Spectrum Expert, AirMagnet Survey Pro as well as examine methodologies and project management. The CUWSS training class reinforces the instruction by providing students with hands-on labs.

This CUWSS course covers several topics and will enable our students to prepare, plan, design, implement, operate and optimize a WLAN. It will also describe different radio signal requirements for different wireless applications and design for data, voice and location based services.

In addition, you will familiarize yourself with the following:

- Perform a layer one survey with Cisco Spectrum Expert to identify any interfering devices
- Perform a layer two survey for data, voice and location based services
- Perform a layer two survey for 802.11n (Greenfield Survey) devices only
- Perform a wireless site assessment and audit once the WLAN has been installed
- Complete a site survey report

### Target Student:

- Wireless Network Engineer
- Mid-level Wireless Support Engineer
- Wireless Test Engineer
- Wireless Network Designer

### Prerequisites:

- Cisco Certified Networking Associate – CCNA
- Cisco Certified Networking Associate Wireless– CCNA Wireless



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## Topics:

### Module 1: Site Survey

- Requirements for Different Vertical Industries
- Determining RF Application Requirements
- Customer Requirements
- Regulatory Issues
- Safety and Aesthetic Requirements
- Logistical Considerations

### Module 2: Plan for the Site Survey

- Selecting a Data Model
- Proper Deployment Characteristics
- Tools Necessary to Complete a Site Survey
- Site Survey Documentation

### Module 3: Conduct the Site Survey

- Producing a Predictive Site Survey
- Conducting a Layer 1 Site Survey
- Conducting a Layer 2 Site Survey for Data
- Conducting a Layer 2 Site Survey for Voice Applications
- Conducting a Layer 2 Site Survey for 802.11n Clients
- Conducting a Layer 2 Site Survey for Location

### Module 4: AP and Controller Density and Licensing

- Infrastructure Requirements for the WLAN
- WLAN Equipment and Licenses

### Module 5: Assessing the Deployment

- Verifying the RF Coverage
- Verifying WLAN Readiness
- Presenting an Installation Report

### Labs

- Producing a Predictive Site Survey
- Conducting a Layer 1 Sweep with Cisco Spectrum Expert
- Locating an Interfering Device
- Conducting an AirMagnet Site Survey for Data
- Conducting an AirMagnet Site Survey for VoWLAN
- Conducting Greenfield AirMagnet Site Survey
- Performing a Floor Calibration