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## Cisco Wireless Networking Site Survey v1.0

Keyword: CWNSS

4 Days – List Price \$2,795

### Course Description

The Cisco Wireless Networking Site Survey course is designed to give you a firm understanding of how to conduct a site survey and explores WLAN topologies for voice and data as well as location appliance services. Through instructor-led training and in-depth instructor-assisted hands-on labs, this advanced course is designed to give you a firm understanding of the tasks necessary to perform a professional site survey. Explore design strategies, including Cisco Wireless Control System (WCS) planning tool, Cisco Spectrum Expert (formerly Cognio Spectrum Expert), AirMagnet Survey PRO as well as examine methodologies and project management. The CWNSS training class reinforces the instruction by providing you with hands-on labs that range from planning a site survey with WCS, using Cisco Spectrum Expert to perform a Layer one sweep of a facility to locate an interfering device, install and configure AirMagnet Survey PRO to perform a site survey of a facility, conduct a site survey for VoWLAN, and build a calibration model for location based services and apply it to a floor in WCS.

Laptops are provided to participate in the hands-on labs. If you desire to use your own laptop, please bring a laptop computer with an available 32-bit CardBus slot and an Ethernet port as well as an internal wireless NIC, 802.11a/b/g. The laptop's operating systems must be either MS Windows 2000 (SP4) or XP. The laptop should also have a 9-pin serial port or USB to serial adapter. IN ADDITION, you will need administrator rights to the laptop to install drivers for the wireless client used in class.

### You Learn...

After completing this course, the student should be able to:

- Describe detailed modulation and spreading techniques and sources of interference for WLAN client adapters
- Identify components, topologies, and the use of channels for WLANs
- Describe the requirement necessary for deployment and performing a site survey
- Describe the steps, concepts, and tools available while performing a site survey
- Configure Cisco Spectrum Expert to perform a site analyses for RF interference
- Configure AirMagnet Surveyor PRO to perform a data site survey
- Conduct a site survey for voice using AirMagnet Surveyor PRO
- Perform a floor calibration using Cisco Wireless Location Appliance

### Who Would Benefit

The Cisco Wireless Networking Site Survey class is targeted toward technical engineers and IT professionals tasked with performing or overseeing site surveys for wireless LAN solution implementations.

### Prerequisite

- Cisco Wireless LAN Fundamentals (CWLF)
- Cisco Wireless LAN Advanced Topics (CWLAT)

### Follow-On Courses

- Cisco Wireless LAN Security (CWLS)
- Cisco Unified Wireless Networking (CUWN)
- Cisco Wireless Mesh Networking (CWMN)
- Cisco Advanced Wireless Bridging Lab (CAWBL)
- Cisco Voice over Wireless LAN (VoWLAN)

**Course Content**

**Module 0 – Introduction**

**Module 1 – Wireless Technology Overview**

- Describing WLAN Radio Technologies
- Describing WLAN Technology Features
- Defining Antenna Concepts

**Module 2 – Site Survey Preparation and Techniques**

- Designing WLANs for Different Application
- Determining the Deployment Requirements for a Site Survey
- Considering the WLAN Design
- Performing a Site Survey

**Module 3 – Tools and Utilities**

- Identifying Site Survey Tools
- Using Site Survey Utilities
- Using the Planning Mode Tool in WCS
- Planning a Site Survey with Cisco WCS (Lab 3-1)

**Module 4 – Cisco Spectrum Expert**

- Describing Cisco Spectrum Expert
- Using Spectrum Expert to Identify RF Interferers
- Layer 1 Sweep with Cisco Spectrum Expert (Lab 4-1)
- Use Spectrum Expert Device Finder to Locate an Interferer (Lab 4-2)

**Module 5 – AirMagnet Surveyor Pro**

- Installing and Registering AirMagnet Surveyor Pro
- Surveying with AirMagnet Surveyor Pro
- AirMagnet Site Survey (Lab 5-1)

**Module 6 – Voice over WLAN Site Survey**

- Gathering the RF Recommendations for a VoWLAN Site Survey
- Completing the VoWLAN Site Survey
- AirMagnet Site Survey for VoWLAN (Lab 6-1)

**Module 7 – Cisco Wireless Location Appliance**

- Supporting a Site Survey for Location Tracking
- Using Cisco WCS Calibration Tool
- Floor Calibration (Lab 7-1)