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## Cisco Unified Wireless Networking v4.0

Keyword: CUWN

3 Days – List Price \$2,295

### Course Description

CUWN 4.0 is based on lightweight access points, controllers and the advanced feature set. Through this course, you will gain experience planning, deploying and managing enterprise WLANs using the Cisco Unified Wireless Network solution.

After a quick overview of the Cisco's Unified Network Solution, the course focuses on covering the components, features and deployment of the system. All of this is reinforced with hands-on configuration labs covering such lessons as CLI and controller web configurations, Open and Web Authentication configurations and end to end 802.1X configurations including client, controller and AAA server. The course also covers the Cisco Wireless Control System (WCS). Usage of this comprehensive tool is then reinforced with hands-on configuration labs covering such topics as managing the WLAN controller using WCS, using WCS templates, creating admin accounts, configuring the WLAN controller, importing and working with maps, using WCS to perform administrative functions on the deployed wireless network. The course finishes by covering the maintenance of a WLAN by utilizing the Cisco Unified WLAN Network solution from unique product features and standard maintenance procedures to detailed troubleshooting methodologies and debugging tools.

To participate in the hands-on labs, please bring a laptop computer with an available 32-bit Card-Bus slot and an Ethernet port. The laptop's operating systems must be MS Windows 2000 (Service Pack 4 or later) or Windows 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:

- Identify functionality unique to each Cisco Wireless LAN Controller
- Identify the functionality of Cisco access point hardware
- Describe the function and operation of Cisco LWAPP
- List the properties of the Auto RF function
- List the three interfaces used for Cisco wireless hardware management
- Implement Cisco wireless controller hardware using initial setup and command-line interface
- Implement Cisco wireless controller hardware using initial setup and web interface

### Who Would Benefit

This course is designed for Cisco Customers, employees, Channel Partners and resellers, interested in the Cisco Unified Wireless Network solution, that have a strong data networking background who will be responsible for the planning, deploying and managing enterprise WLAN using lightweight access points, controllers and the advanced feature set.

### Prerequisite

- Cisco Aironet Wireless LAN Fundamentals and Site Survey

### Follow-On Courses

- Cisco Wireless Mesh Networking (CWMN)
- Cisco Aironet WLAN Security (CWLS)
- Cisco Aironet Wireless LAN Advanced Technologies (AWLAT)

### Course Content

#### **Module 1 -- Cisco Unified WLAN Solution**

- Enterprise WLAN Solutions

#### **Module 2 – Cisco Unified Wireless Hardware Installation**

- Controller hardware
- Access Points
- Controller Setup-CLI
- Web-based Controller Setup
- Configuration using Web Management
- Access Point Operation Modes
- Cisco LWAPP
- Auto RF Functions

#### **Module 3 – Cisco Unified Wireless Network Administration**

- Ports and Interfaces
- VLAN Administration
- DHCP Configuration
- Roaming
- WLAN Configuration
- Weak Security Policies
- QoS
- General Network Communication

#### **Module 4 – WLAN Security**

- Security Configuration
- Security Policy Administration

#### **Module 5 – WLAN Maintenance**

- WLAN Troubleshooting
- Gathering WLAN Traffic and Data
- WLAN Policies and Management
- Device Code and Configuration Management

#### **Module 6 – Cisco Wireless Control System**

- Wireless Control System Overview
- WCS Architecture Overview
- WCS Installation
- WCS Administration
- WCS Configuration Tab
- WCS Monitor Tab
- WCS Upgrade, Backup and Restore
- WCS Troubleshooting

## Cisco Unified Wireless Networking v4.0 (continued)

### Module 7 – Cisco Location Tracking

- WCS Location
- WCS with Cisco Location Server

#### Labs Include:

- Cisco System Setup
- Controller Web Configurations
- Layer 3 Options Configuration
- Open Authentication
- Web Authentication
- WEP Authentication
- 802.1X EAP-PEAP-MSCHAPv2 Authentication
- WPA EAP-PEAP-MSCHAPv2 Authentication
- WPA2 EAP-PEAP-MSCHAPv2 Authentication
- Wireless Control System
- Cisco System Upgrade