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Cisco Unified Wireless Networking v4.01

Keyword: CUWN

4 Days – List Price \$2,695

Course Description

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 CardBus slot and an Ethernet port. 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:

- Identify WLAN implementation challenges and solutions
- Describe Cisco Unified Wireless Networking hardware and features
- Configure networking features on Cisco Wireless LAN Controller
- Administer security so that the network is safe from attack
- Install, configure and manage Wireless LAN Controllers and access points using Cisco WCS
- Describe and configure major features of location servers using Cisco WCS

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

- Aironet Wireless LAN Fundamentals and Site Survey (AWFSS) or Cisco Wireless LAN Fundamentals (CWLFL)

Follow-On Courses

- Cisco Wireless Mesh Networking (CWMN)
- Cisco Aironet WLAN Security (CWLS)
- Cisco Advanced Wireless Bridging (CAWBL)
- Aironet Wireless LAN Advanced Topics (AWLAT) or Cisco Wireless LAN Advanced Topics (CWLAT)
- Cisco Voice over Wireless LAN (VoWLAN)

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Course Content

Module 1 -- Cisco Unified WLAN Solution

- Enterprise WLAN Solutions

- Lab 6-4: Using Cisco WCS to Monitor Security
- Lab 6-5: Using Cisco WCS to Mitigate Rogues

Module 2 – Cisco Unified Wireless Hardware Installation

- Access Points
- Controller Hardware
- Ports and Interfaces
- Management Configuration
- Access Point Operation Mode
- AP Association - Finding a Controller
- Lab 2-1: Cisco Wireless LAN Controller System Setup

Module 3 – Cisco Unified Wireless Network Administration

- 802.11 Protocols and Auto RF
- Roaming Concepts
- WLAN Administration
- Quality of Service
- Lab 3-1: Configuring the Controller via the Web-Browser
- Lab 3-2: Layer 3 Options and Configurations
- Lab 3-3: Client Configuration

Module 4 – WLAN Security

- Security Configuration
- Security Policy Administration
- Lab 4-1: Configuring Web Authentication
- Lab 4-2: Configuring 802.1X PEAP (MSCHAPv2) Authentication
- Lab 4-3: Configuring WPA Encryption w/ 802.1X LEAP Authentication
- Lab 4-4: Configuring WPA2 Encryption w/ 802.1X EAP-FAST Authentication

Module 5 – Cisco Wireless Control System

- Installing the Cisco Wireless Control System
- Managing the Cisco Unified Wireless Network using Cisco WCS

Module 6 – Cisco Location Tracking

- Cisco WCS Location
- Cisco Wireless Location Appliance
- Lab 6-1: Configuring the controller via Cisco WCS
- Lab 6-2: Managing the WLAN from Cisco WCS
- Lab 6-3: Using Cisco WCS Reports