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## Cisco Wireless LAN Advanced Topics v2.0

Keyword: CWLAT

4 Days – List Price \$2,795

### Course Description

Learn to design, manage, and troubleshoot enterprise wireless networks using the Cisco Unified Wireless Network. This course includes instructor-led training and in-depth instructor assisted, hands-on labs. The course focuses on advanced WLAN design, integrating Cisco wireless components into a wired infrastructure. Deployment topics include managing the WLAN by using the Cisco Wireless Control System (WCS) to manage advanced features. Security topics focus on integrating WLAN security using the WLAN controllers and controller-based access points in conjunction with the Cisco Secure ACS, and Network Admission Control (NAC). **GigaWave's version provides updated hands-on labs which cover the controller firmware release 4.2 as well as the Cisco WCS software release 4.2. In addition, Cisco Access Control Server (ACS) is used to support authenticating clients via EAP-FAST, EAP-PEAP, EAP-TLS or Cisco LEAP.**

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 technical features, functions and benefits of the controller-based architecture
- Install and setup Cisco WCS and provide the information needed to configure a WLAN using Cisco WCS
- Manage the WLAN controller-based network with the Cisco WCS
- Troubleshoot and maintain a WLAN controller-based network
- Apply advanced applications to WLAN controller-based networks
- Administer security so that the WLAN controller-based network is safe from attack

### Who Would Benefit

The Cisco Wireless LAN Advanced Topics course is targeted to system engineers, field engineers, technical engineers, network integrators and technical sales personnel, who need to know how to sell, design, install, integrate, and support wireless networks or tasked with performing or overseeing site surveys for wireless LAN solution implementations.

### Prerequisite

- Cisco Wireless LAN Fundamentals (CWLF)

### Follow-On Courses

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

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### Course Content

#### Module 0 -- Course Introduction

- Using Cisco WCS to Monitor Security (Lab 6-1)
- Using Cisco WCS to Mitigate Rogues (Lab 6-2)

#### Module 1 -- Cisco Unified Wireless Network Concepts

- Describing the Cisco Unified Wireless Network
- Describing Controller-based Architecture
- Cisco Wireless LAN Controller System Setup (Lab 1-1)
- Client Configuration (Lab 1-2)
- Configure Layer 3 Options (Lab 1-3)

#### Module 2 – Implementing the WLAN with Cisco WCS

- Installing the Cisco Wireless Control System
- Configuring the Cisco Wireless Control System
- Configuring the Controller via Cisco WCS (Lab 2-1)
- Managing the WLAN from the Cisco WCS (Lab 2-2)

#### Module 3 – WLAN Management

- Managing the WLAN from the WLAN Controller
- Managing the Cisco Unified Wireless Network using Cisco WCS
- Managing the Cisco Unified Wireless Network using Controllers

#### Module 4 – Wireless Network Troubleshooting

- Troubleshooting the Cisco WLAN Controller-Based Network
- Describing Best Practices for the Cisco Secure Service Client
- Using Cisco WCS Reports (Lab 4-1)

#### Module 5 – Advanced Applications

- Describing the VoWLAN Infrastructure
- Implement the VoWLAN Infrastructure
- Introducing the Cisco Wireless Location Appliance
- Deploying the Mesh Network
- Troubleshooting the Cisco Controller-based WLAN (Lab 5-1)

#### Module 6 – Cisco WLAN Security Advanced Topics

- Describing WLAN Security Standards
- Securing the WLAN
- Configuring Cisco Secure ACS