
Cisco Wireless LAN Fundamentals

Duration: 4 Days **Course Code: CWLF**

Overview:

This four-day course examines the fundamentals of Cisco's wireless LAN technology. Topics include the concepts of autonomous and lightweight access points and controllers, network management solutions and security. After completing this course, learners will be able to discuss configuration, and management of both autonomous and lightweight wireless networks.

Target Audience:

This course is aimed at System and Field Engineers working in the wireless field who possess wireless basics and seek to add more advanced concepts to their knowledge and who may wish to attain the Advanced Wireless LAN accreditation

Objectives:

- Describe detailed Modulation and spreading techniques and how it is used with various antennas
 - Describe detailed technical features, functions and benefits of the wireless WLAN product offerings available from Cisco
 - Define concepts and describe considerations for deploying wireless bridges
 - Configure a Cisco Client card with Cisco Utilities
 - Configure the core access point and bridge
 - Perform an initial configuration of a WLAN
 - Implement a WLAN management solution available from Cisco
 - Perform an initial configuration of a WLAN
 - Secure a WLAN using security methods and products available from Cisco
 - Describe the requirement necessary for deployment and performing a site survey
 - Describe the steps, concepts, and tools available while performing a site survey
 - Configure an advanced featured WLAN using a Cisco Wireless LAN controller
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Prerequisites:

Delegates are required to meet the following prerequisites:

- Basic Computer Literacy
- Knowledge of fundamental networking components and terminology
- Knowledge of the Open Systems Interconnection (OSI) reference model
- Knowledge of basic LAN components and functions

Testing and Certification

Recommended as preparation for exam(s):

- 642-587 AWLANFE
 - 642-586 AWLANSE
- CWLAT should be attended before taking these exams
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Follow-on-Courses:

The following courses are recommended for further study:

- CWLAT – Cisco Wireless LAN Advanced Topics
 - CWMN – Cisco Wireless Mesh Networking
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Content:

Cisco Aironet WLAN Overview

- Describing Wireless LAN (WLAN) Radio Technologies
- Defining Antenna Concepts

Cisco Aironet WLAN Products

- Describing Wireless LAN Access Points, Bridges, Antennas and Accessories.
- Describing WLAN Clients
- Describing WLAN Network Management, Control, and Services
- Introducing Access Point Enterprise-Class Features

Wireless Bridges

- Using Wireless Bridges and Alternatives
- Choosing Roles in Radio Network
- Determining Bridge Path Information

Aironet DesktopUtility

- Describing Configuration Utilities
- Installing and Configuring Aironet Desktop Utility

Core Access Point and Bridge Basic Configuration

- Describing Cisco Unified Wireless Network Distributed Solution
- Setting up Autonomous Access Point Hardware
- Configuring the Access Point
- Managing the Access Point Setting up and Configuring the Bridge

Advanced Feature Set Product Administration

- Introducing the Cisco WLAN Advanced Feature Set Products and Configuration
- Defining Roaming Concepts
- Configuring the Network

WLAN Management Solutions

- Introducing CiscoWorks WLAN Solution Engine
- Introducing the Cisco Wireless Control System
- Introducing the Cisco Wireless Location Appliance
- Identifying Other WLAN Management Tools

Cisco Wireless Mesh Network Installation

- Introducing Wireless Mesh Networking
- Introducing the Cisco Aironet 1510 Lightweight Outdoor Mesh Access Point

Security

- Introducing 802.11 Security
- Defining Vulnerabilities of WLAN Security
- Introducing the Cisco Wireless Security Suite
- Configuring Cisco Secure ACS
- Configuring WLAN Core Feature Set Products for Encryption and Authentication
- Configuring a Centralized WLAN for Encryption and Authentication

Site Survey Preparation and Techniques

- Determining the Deployment Requirements for a Site Survey
- Performing a Site Survey
- Determining the Deployment Requirements for a Site Survey
- Performing a Site Survey

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Manual Site Survey Tools and Utilities

- Identifying Site Survey Tools
- Using Site Survey Utilities
- Using AirMagnet Site Survey Tool for a Manual Survey

Further Information:

For More information, or to book your course, please call us on 353-1-814 8200

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