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| COURSE | Cisco Wireless LAN Fundamentals (CWLF) v2.0 |
| CODE | TRN_CWLF |
| DURATION | 4 days |

COURSE

The Cisco Wireless LAN Fundamentals (CWLF) course provides Systems Engineers (SEs) and Field Engineers (FEs) with fundamental knowledge and skills in Wireless LAN (WLAN) technologies, products and solutions. By attending the course the learners will be able to offer their customers the most innovative and comprehensive suite of WLAN solutions in the industry, spanning a wide range of customer sizes and needs.

WHO SHOULD ATTEND

- The Cisco Wireless LAN Fundamentals Course is addressed to SEs and FEs (internal Cisco, Cisco Channel Partners and customers) working in the wireless field who possess basic networking knowledge and seek to add WLAN concepts to their knowledge.
- Network Administrator, Network Engineers, Network Managers and technical sales personnel, who need to know how to sell, design, install and support wireless local area networking.

COURSE OBJECTIVES

Upon finishing this course, you will be able to:

- Describe detailed modulation and spreading techniques and how it is used with various antennas
- Describe detailed technical features, functions, and benefits of the Cisco wireless LAN products and how they compare to each other
- Describe Aironet Desktop Utility and the Cisco Secure Services Client
- Define the concept of using wireless devices to create a WLAN using the standalone products
- Define concepts of using wireless devices to create a Layer 2 bridge

- Configure a controller-based wireless network using a Cisco wireless LAN controller
- Describe the requirement necessary for deployment and performing a site survey
- Describe the steps, concepts, and tools available while performing a site survey

COURSE OUTLINE

Wireless Technology Overview

- Describing WLAN Radio Technologies
- Defining Antenna Concepts
- 802.11 Design Concepts
- Introducing 802.11 Security

Cisco WLAN Products

- Describing WLAN Access Points, Bridges and Accessories
- Describing WLAN Clients
- Describing WLAN Controllers and Routers
- Describing Network Management
- Introducing Access Point Enterprise-Class Features

Cisco Wireless Clients and Supplicants

- Installing and Configuring Aironet Desktop Utility
- Installing and Configuring Cisco Secure Services Client

Standalone Access Point Administration

- Describing the Standalone Solution
- Setting up Standalone Access Point Hardware
- Configuring the Standalone Access Point
- Managing the Standalone Access Point
- Configuring the Standalone Access Points for Secure Authentication
- Introducing CiscoWorks WLAN Solution Engine

Wireless Bridges

- Implementing Wireless Bridges

- Choosing Roles in Radio Network
- Determining Bridge Path Information
- Setting up and Configuring the Cisco Standalone Bridge

Cisco Unified WLAN Administration

- Introducing the Cisco Controller-Based Products and Configuration
- Explaining Roaming Concepts
- Configuring a WLAN Controller
- Configuring a Secure Authentication
- Introducing the Cisco Wireless Control System

Site Survey Preparation and Techniques

- Determining the Deployment Requirements for a Data Site Survey
- Performing a Site Survey
- Gathering the Deployment Requirements for a Voice Site Survey

Tools and Utilities

- Identifying Site Survey Tools
- Using Site Survey Utilities
- Identifying Other WLAN Management Tools

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