

CWLF

Cisco Wireless LAN Fundamentals



The course at hand addresses technically-oriented employees responsible for the design, distribution, installation, and performance of site surveys for the sector 802.11 wireless LAN solutions. The seminar presents the devices and the concepts of the autonomous and lightweight access points. Moreover, it imparts a clear-cut concept of the WLAN technology as the basis for the applications and of the security aspects. Additionally, the course provides an introduction into the configuration of the devices. An important component of the network design consists of the techniques of the site survey for 802.11 wireless LAN implementations. After the course, the participants will be able to configure all basic features of the Cisco Aironet environment and have acquired the necessary know-how about site survey. In connection with the CWLAT course, the seminar treats the topics relevant for the examinations as Cisco Advanced WLAN Field Specialist (642-631 AWLANFE) and as Cisco Advanced WLAN Design Specialist (642-681 AWLANSE).

Course Contents

- Basic HF and Antenna Information
- Lightweight Access Point
- WLAN and 802.11 Basics
- 802.11 WLAN Topologies and Design
- Cisco WLAN Solutions
- AP Configuration
- Security in the WLAN
- Configuration of 802.1X and Wi-Fi Protected Access (WPA)
- Site Survey Technology
- Connectivity, Mounting, Cabling, Infrastructures
- Installation of WLAN Client Adapters and Utilities
- Client Adapter, Access Point, and Bridge Configuration
- Fast Roaming, Radio Management, Mobile Networks, and Mobile IP
- Troubleshooting, Practical Labs

In this course, each student will receive the original Cisco Systems course documentation in English language.

Target Group

This technically-oriented course focuses on the basic aspects of a Cisco Aironet-based WLAN. Because of that, it is tailor-made for administrators, product specialists from the sales sector, and systems engineers.

Knowledge Prerequisites

Basic knowledge of LANs and TCP/IP is mandatory.



Reservation and Registration

We will be glad to make a free and non-binding course reservation for you for the duration of two weeks. On www.experteach-benelux.com under *Registration*, you can conveniently make course reservations, registrations, and hotel reservations. Alternatively, call us under +31 (0)76 52 32 950.

For closed groups of participants, we can modify the course contents according to your requirements. Do not hesitate to contact us!



CWLF

4 days €2,150 exclusive of V.A.T.

Course date (dd.mm.yy)/Location

Course dates available on request

Up-to-date information: www.experteach-benelux.com CWLF



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Cisco
Systems

ICT Training
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Course Introduction

Overview
 Course Goal and Objectives
 Course Flow
 Additional References

Module 1: Cisco Aironet WLAN Overview

Lesson 1: Describing Wireless LAN Radio Technologies
 Lesson 2: Defining Antenna Concepts

Module 2: Cisco Aironet WLAN Products

Lesson 1: Describing Wireless LAN Access Points, Bridges, Antennas and Accessories
 Lesson 2: Describing WLAN Client Adapters
 Lesson 3: Describing WLAN Network Management, Control, and Services
 Lesson 4: Introducing Access Point Enterprise-Class Features

Module 3: Wireless Bridges

Lesson 1: Using Wireless Bridges and Alternatives
 Lesson 2: Choosing Roles in the Radio Network
 Lesson 3: Determining Bridge Path Information

Module 4: Aironet Desktop Utility

Lesson 1: Describing Configuration Utilities
 Lesson 2: Installing and Configuring Aironet Desktop Utility

Module 5: Core Access Point and Bridge Basic Configuration

Lesson 1: Describing Cisco Unified Wireless Network Core Products
 Lesson 2: Setting up Autonomous Access Point Hardware
 Lesson 3: Configuring the Access Point
 Lesson 4: Managing the Access Point
 Lesson 5: Setting up and Configuring the Bridge

Module 6: Advanced Feature Set Product Administration

Lesson 1: Introducing the Cisco WLAN Advanced Feature Set Products and Administration
 Lesson 2: Defining Roaming Concepts
 Lesson 3: Configuring the Network

Module 7: WLAN Management Solutions

Lesson 1: Introducing CiscoWorks WLSE
 Lesson 2: Introducing the Cisco Wireless Control System
 Lesson 3: Introducing the Cisco Wireless Location Appliance

Lesson 4: Identifying Other WLAN Management Tools

Module 8: Cisco Wireless Mesh Network Installation

Lesson 1: Introducing Wireless Mesh Networking
 Lesson 2: Introducing the Cisco Aironet 1500 Series Lightweight Outdoor Mesh Access Point

Module 9: Security

Lesson 1: Introducing 802.11 Security
 Lesson 2: Defining Vulnerabilities of WLAN Security
 Lesson 3: Introducing Cisco Wireless Security Suite
 Lesson 4: Configuring Cisco Secure ACS
 Lesson 5: Configuring Encryption and Authentication Autonomous Access Points
 Lesson 6: Configuring Encryption and Authentication on Lightweight Access Points

Module 10: Site Survey Preparation and Techniques

Lesson 1: Determining the Deployment Requirements for a Site Survey
 Lesson 2: Performing a Site Survey

Module 11: Manual Site Survey Tools and Utilities

Lesson 1: Identifying Site Survey Tools
 Lesson 2: Using Site Survey Utilities
 Lesson 3: Using AirMagnet Site Survey Tool for a Manual Survey



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