CISCO WIFUND
Implementing Cisco Wireless Network Fundamentals v1.0

Our Learning Exclusive

- Custom exam prep software and materials
- Exam delivery in classroom with 98% success
- Course specific thinQtank® Learning publications to promote a fun exciting learning
- Extended hours of training including immersive hands-on exercises
- WE DO NOT "TEACH THE TEST" We always deliver valuable hands-on experience
- Receive all reading material and study guides when you register
- All courses taught by CCIE expert instructors

Course Duration

- Five days of instructor-led training
- 60% lecture, 40% hands-on labs

Prerequisites

- ICND1 or CCENT certification, plus ICND2
- Foundational knowledge of 802.11 wireless network technologies
- ICND1 v2.0 - Interconnecting Cisco Networking Devices, Part 1
- ICND2 v2.0 - Interconnecting Cisco Networking Devices, Part 2

Target Audience

- Network engineers, network administrators, network managers, and system engineers
- WLAN designers, planners and implementers
- Anyone wishing to attain CCNA Wireless or CCNP Wireless certification

Exam Information

- 200-355 – Implementing Cisco Wireless Network Fundamentals (WIFUND)

Delivery Methods

- Instructor-Led Training
- Immersive Live-Online Training
- On-Site and Custom Delivery

Exclusive Toolkit and Pen Test Lesson

- Wi-Fi penetration testing kit
- USB WLAN adaptor for packet sniffing and injection with a high-gain antenna
- USB Spectrum Analyzer with fully licensed metageek software
- Custom Linux build for WLAN penetration testing

BONUS LEARNING MODULE

- Four hour WLAN security and penetration testing lesson

Course Overview

thinQtank® Learning is offering an industry unique five-day training camp in which students can receive the Cisco CCNA Wireless certification. As with all of our Cisco Training Experiences, exams are delivered in the classroom.

Cisco Wireless technology growth places increased demands on networks and the professionals that support them. Ensuring this technology is optimally configured, monitored, and supported is paramount to achieving business outcomes and requires a workforce of skilled wireless professionals. Earn the CCNA Wireless certification and amplify your basic Cisco Wireless LAN's configuration, monitoring, troubleshooting and support skills for optimal performance of Cisco Wireless networks.

This course helps prepare you for the associate-level CCNA Wireless certification, a prerequisite to CCNP Wireless certification. You will learn how to design, install, configure, monitor, and conduct basic troubleshooting tasks of a Cisco Wireless LAN (WLAN) in SMB and enterprise installations.

Course Objectives

Implementing Cisco Wireless Network Fundamentals course is designed for individuals who are involved in the technical management of Cisco wireless platforms and solutions, which involves installing, configuring, operating and troubleshooting. Implementing Cisco Wireless Network Fundamentals course is designed for individuals who are involved in the technical management of Cisco wireless platforms and solutions, which involves installing, configuring, operating and troubleshooting.
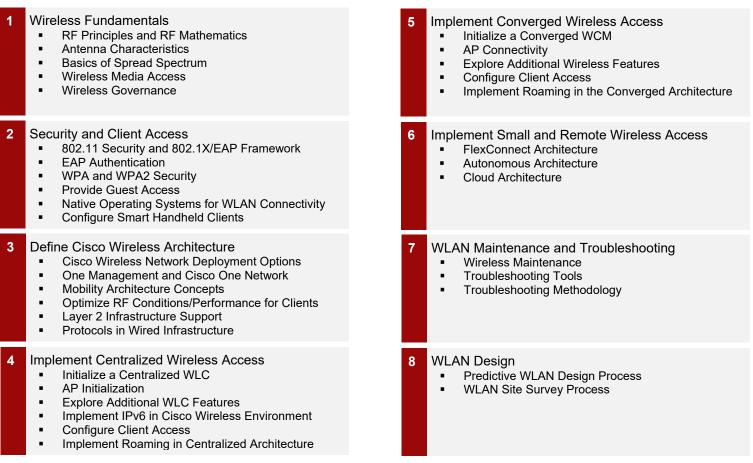
- Understand the basic RF principles and characteristics
- Understand WLAN security methods and access with differing client devices
- Define the Cisco WLAN architecture and the underling infrastructure used to support it
- Implement a Centralized wireless access network using AireOS or IOS-XE wireless LAN controllers
- Implement a Converged wireless access network using IOS-XE converged access switches and wireless LAN controllers
- Implement small and remote access wireless networks using FlexConnect, Autonomous or Cloud architectures
- Perform basic WLAN maintenance and troubleshooting -describe the requirements for a WLAN design

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Course Modules

1 Wireless Fundamentals
- RF Principles and RF Mathematics
- Antenna Characteristics
- Basics of Spread Spectrum
- Wireless Media Access
- Wireless Governance

2 Security and Client Access
- 802.11 Security and 802.1X/EAP Framework
- EAP Authentication
- WPA and WPA2 Security
- Provide Guest Access
- Native Operating Systems for WLAN Connectivity
- Configure Smart Handheld Clients

3 Define Cisco Wireless Architecture
- Cisco Wireless Network Deployment Options
- One Management and Cisco One Network
- Mobility Architecture Concepts
- Optimize RF Conditions/Performance for Clients
- Layer 2 Infrastructure Support
- Protocols in Wired Infrastructure

4 Implement Centralized Wireless Access
- Initialize a Centralized WLC
- AP Initialization
- Explore Additional WLC Features
- Implement IPv6 in Cisco Wireless Environment
- Configure Client Access
- Implement Roaming in Centralized Architecture

5 Implement Converged Wireless Access
- Initialize a Converged WCM
- AP Connectivity
- Explore Additional Wireless Features
- Configure Client Access
- Implement Roaming in the Converged Architecture

6 Implement Small and Remote Wireless Access
- FlexConnect Architecture
- Autonomous Architecture
- Cloud Architecture

7 WLAN Maintenance and Troubleshooting
- Wireless Maintenance
- Troubleshooting Tools
- Troubleshooting Methodology

8 WLAN Design
- Predictive WLAN Design Process
- WLAN Site Survey Process

Course Labs

- Lab 1: Configure Windows 7 Client Access
- Lab 2: Configure the Wired Infrastructure
- Lab 3: Configure the Centralized WLAN
- Lab 4: Configure IPv6 in a Centralized WLAN
- Lab 5: Configure Security in a Centralized WLAN
- Lab 6: Configure Guest Access Using Anchor WLC
- Lab 7: Deploy a Converged Access WLAN
- Lab 8: Configure Security on a Converged WLAN
- Lab 9: Implement a FlexConnect WLAN
- Lab 10: Initialize an Autonomous WLAN
- Lab 11: Configure Security Autonomous AP WLAN
- Lab 12: Configure Security on a Cloud WLAN
- Lab 13: Centralized Controller Maintenance
- Lab 14: Perform Wi-Fi Scanning
- Lab 15: Challenge: Various Trouble Tickets
- Lab 16: Perform a Predictive WLAN Design
- Lab 17: Perform Passive Site Survey Analysis

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