

IMPLEMENTING CISCO WIRELESS NETWORK FUNDAMENTALS (WIFUND V1.01)

Course number : 127

Overview

Implementing Cisco Wireless Network Fundamentals (WIFUND) is a 5 day ILT course, designed to help students prepare for the CCNA-Wireless certification, an associate level certification specializing in the wireless field. The WIFUND course and CCNA-Wireless certification is a prerequisite to the CCNP-Wireless (Cisco Certified Wireless Professional) curriculum. The CCNA-Wireless curriculum will prepare wireless network associate for the use, positioning, planning, implementation and operation of Cisco WLAN networks. The goal of the WIFUND v3.0 is to provide students with information and practice activities to prepare them to help design, install, configure, monitor and conduct basic troubleshooting tasks of a Cisco WLAN in SMB and Enterprise installations. As an associate level, the course aims at providing entry level information, and will not specialize in any of the advanced features of the Cisco WLAN networks solutions.

EXAM INFORMATION:

- Tuition does not include an exam voucher.

CERTIFICATION INFORMATION:

- To earn Cisco Wireless certification you must pass the 200-355 WIFUND exam

REDEEM YOUR CISCO LEARNING CREDITS (CLCS):

- This course is eligible for Cisco Learning Credit (CLC) redemption.
- Want to learn more about Cisco CLCs? [Click to view our CLCs infographic](#)

What you'll learn

- Understand the basic RF principles and characteristics.
- Understand WLAN security methods and access with differing client devices.
- Define the Cisco WLAN architecture and the underlying 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.

Who should attend

Pre-requis

- Interconnecting Cisco Networking Devices Parts 1 & 2 (ICND1 & ICND2), or
- Cisco CCENT certification

Note: Students registering for this course will be receiving their course kit in a digital format. To be able to view your digital kit you will need to bring a laptop PC and/or a compatible iPad or Android tablet.

Please be aware that this digital version is designed for online use, not for printing. You can print up to 10 pages only in each guide within a course. Please note that every time you click the Print button in the book, this counts as one page printed, whether or not you click OK in the Print dialog.

Outline

Wireless Fundamentals

- Explaining Wireless Fundamentals
- Describing RF Principles
- Understanding RF Mathematics
- Accessing UCCE Tools
- Describing the Basics of Spread Spectrum
- Describing Wireless Media Access
- Describing Wireless Governance

Constructing Networks Using Data Links

Encoding information

- Defining bits, bytes and packets
- Taking advantage of digital encoding

Improving efficiency with error control

- Detecting and correcting errors
- Using ACKs and feedback error correction

Security and Client Access

- Describing Wireless Security Components
- Explaining 802.11 Security
- Explaining the 802.1X and EAP Framework
- Describing EAP Authentication

- Describing WPA and WPA2 Security
- Providing Guest Access
- Configuring Native Operating Systems for WLAN Connectivity
- Configuring Smart Handheld Clients

Cisco Wireless Network Architecture

- Defining Cisco Wireless Network Deployment Options
- Defining Cisco One Management
- Defining Cisco One Policy
- Defining Cisco One Network
- Explaining Mobility Architecture Concepts
- Optimizing RF Conditions and Performance for Clients
- Describing Layer 2 Infrastructure Support
- Describing Protocols Used in Wired Infrastructure to Support Wireless

Centralized Wireless Access

- Initializing a Centralized WLC
- Describing AP Initialization
- Exploring Additional WLC Features
- Implementing IPv6 in a Cisco Wireless Environment
- Configuring Client Access
- Implementing Roaming in the Centralized Architecture

Converged Wireless Access

- Initializing a Converged Access Cisco WLC and WCM
- Describing AP Connectivity
- Exploring Additional Wireless Features
- Configuring Client Access
- Implementing Roaming in the Converged Architecture

Small and Remote Wireless Access

- Understanding Cisco FlexConnect Architecture
- Lesson 2: Understanding Autonomous AP Architecture
- Lesson 3: Understanding Cloud Architecture

WLAN Design

- Describing the Predictive WLAN Design Process
- Describing the WLAN Site Survey Process

WLAN Maintenance and Troubleshooting

- Describing WLAN Maintenance
- Lesson 2: Explaining WLAN Troubleshooting Tools
- Lesson 3: Describing WLAN Troubleshooting Methodology

Schedule

Location Dates Status

Tuition

IN CLASSROOM OR ONLINE PRIVATE TEAM TRAINING

STANDARD \$3895

[Contact Us »](#)

GOVERNMENT \$3895

FAQ

Certification