



Understanding Cisco Wireless Foundations (WLFNDU) v2.0

What you'll learn in this course

The Understanding Cisco Wireless Foundations (WLFNDU) training teaches you the knowledge and skills you need to configure, manage, and troubleshoot a Cisco wireless LAN (WLAN) network. Topics include understanding critical aspects of RF technology, industry standards for Wi-Fi and security, how to design, install, and configure a WLAN network of any size, and using Cisco DNA Center. This training also earns you 40 Continuing Education (CE) credits towards recertification.

Course duration

- Instructor-led training: 5 days in the classroom with hands-on lab practice
- Virtual instructor-led training: 5 days of web-based instruction with hands-on lab practice
- E-learning: Equivalent of 5 days in the classroom with hands-on lab practice

How you'll benefit

This training will help you:

- Learn the skills, technologies, and best practices needed to manage a Cisco WLAN network
- Understand and implement a Cisco wireless network architecture
- Design and implement WLAN maintenance and troubleshooting solutions

Who should enroll

- Network engineer
- Systems engineer
- Wireless engineer
- Technical solutions architect
- Network administrator
- Wireless design engineer
- Network manager

Technology areas

- Enterprise networking
- Wireless networking

Course details

Objectives

- Describe and implement foundational wireless theory
- Describe and implement foundational wireless math and antennas
- Describe and implement foundational wireless operation including Wi-Fi 6
- Describe security and client access in a wireless network
- Implement 802.1X and Extensible Authentication Protocol (EAP)
- Implement wireless guest access and configure wireless security
- Describe Cisco wireless architecture components and deployment options
- Describe Cisco wireless architecture and its deployment modes, the Control and Provisioning of Wireless Access Points (CAPWAP) protocol, and the Cisco WLC and AP line up
- Describe the wired support for implementing wireless networks
- Deploy Cisco centralized wireless networks using Cisco 9800 WLC
- Describe the centralized wireless access model and its configuration
- Describe maintenance and troubleshooting in the centralized WLAN model
- Describe the management and monitoring of Cisco Wireless Networks with Cisco DNA Center

Recommended knowledge and training

Before taking this offering, you should have:

- General knowledge of networks
- General knowledge of wireless networks
- Routing and switching knowledge

How to enroll

To enroll in the WLFNDU course or explore our larger catalog of courses on Cisco Digital Learning, contact us at <training@fastlane-mea.com>

Outline

Module 1: RF and WLAN Theory
Module 2: WLAN Math and Antennas
Module 3: Wi-Fi Operations
Module 4: Basic WLAN Security
Module 5: Advanced WLAN Security
Module 6: Configuring WLAN Security
Module 7: Cisco Wireless Network Architecture
Module 8: Implementing Cisco Wireless Network
Module 9: Implementing Cisco Wireless Network Wired Support
Module 10: Deploying Cisco Centralized Wireless Networks
Module 11: Configuring Cisco Centralized Wireless Networks
Module 12: Maintaining and Troubleshooting Cisco Wireless Networks
Module 13: Managing and Monitoring Cisco Wireless Networks with Cisco DNA Center

Lab outline

Discovery 1: Practice RF Math
Discovery 2: Antenna Calculations
Discovery 3: Explore the Wi-Fi Environment
Discovery 4: Analyze Wireless Frames
Discovery 5: Configure Client Access
Discovery 6: Deploy Cisco 9800 WLC
Discovery 7: Configure Cisco 9800 WLC
Discovery 8: Perform Cisco 9800 WLC Maintenance

