

# Understanding Cisco Wireless Foundations v2.0

## Course Content

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 30 Continuing Education (CE) credits towards recertification.

## Course 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

## Prerequisites

Before taking this offering, you should have:

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

## Course 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

## Who Should Attend?

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

## Associated Certifications

None

## Course duration:

5 Days

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