

# Understanding Cisco Wireless Foundations (WLFNDU) v2.0

**Course Duration: 40 Hours (5 Days)**

## Overview

The Understanding Cisco Wireless Foundations (WLFNDU) v2.0 course is designed to provide learners with the knowledge and skills necessary to understand and implement Cisco wireless networks. It covers Foundational wireless theory, Wireless math, Antennas, Basic wireless security, and 802.1X/EAP authentication. Additionally, it delves into Implementing guest access, Cisco wireless network architecture, Centralized wireless networks, maintenance, and troubleshooting. Throughout the course, participants will engage with practical lab exercises, such as RF math, Antenna calculations, and configuring both client access and Centralized WLAN deployments on Cisco WLCs. This Cisco WLC training is crucial for professionals looking to manage Cisco wireless networks effectively. Upon completion of the WLFNDU course, learners will be equipped with the skills to optimize and maintain wireless networks, ensuring robust security and efficient performance. This foundation is essential for anyone aiming to advance in the field of wireless networking.

## Audience Profile

The Understanding Cisco Wireless Foundations course equips learners with essential skills for configuring,

- maintaining, and troubleshooting Cisco wireless networks.
- Target Job Roles and Audience for the Course:
- Network engineers interested in wireless networking within Cisco infrastructures
- Systems engineers aiming to specialize in Cisco wireless deployments
- Wireless support technicians seeking foundational knowledge of Cisco wireless networks
- IT professionals preparing for the Cisco CCNA Wireless or CCNP Wireless certification exams
- Network administrators overseeing Cisco wireless network environments
- Technical support personnel involved in maintaining and troubleshooting Cisco wireless systems
- IT managers looking to understand Cisco wireless networking for strategic planning
- Cisco channel partners needing to upskill on wireless foundations for better service offerings
- Network designers who are responsible for designing wireless networks using Cisco technology
- Security professionals who need to understand wireless security protocols and configurations

## Course Syllabus

### 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

## Training overview

- Objectives
- Describe and implement foundational wireless theory
- Describe and implement basic wireless security and client access
- Describe and implement a Cisco wireless network architecture
- Configure Cisco centralized wireless networks
- Describe and implement WLAN maintenance and troubleshooting
- Prerequisites
- We recommend but do not require that you have the following knowledge and skills before taking this training:
- General knowledge of networks
- General knowledge of wireless networks
- Routing and switching knowledge

## Lab outline

- Practice RF Math
- Antenna Calculations
- Explore the Wi-Fi Environment
- Analyze Wireless Frames
- Configure Client Access
- Configure the Wired Infrastructure
- Configure a Centralized Cisco Wireless LAN Controller (WLC) Deployment
- Configure a Centralized WLAN Deployment on Cisco 3504 WLC
- Configure a Centralized WLAN Deployment on Cisco 9800 WLC
- Configure an IPv6 Operation in a Centralized WLAN Deployment
- Optimize RF Conditions and Performance for Clients
- Perform Centralized Controller Maintenance
- Use Troubleshooting Tools