

# Implementing Cisco Wireless Network Fundamentals

Learn via: **Classroom/AFA**

Duration: **5 Day**

## **Overview**

The Implementing Cisco Wireless Network Fundamentals (CI-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 curriculum will prepare wireless network associate for the use, positioning, planning, implementation and operation of Cisco WLAN networks.

The aim of this course 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.

## **Certifications**

This course is part of the following Certifications:

Cisco Certified Network Associate Wireless (CCNA Wireless)

## **Prerequisites**

It is recommended that delegates have attended the Interconnecting Cisco Network Devices Part 1 Version 2.0 (ICND1) course, or have equivalent knowledge.

## **Who Should Attend**

This course is relevant for individuals pursuing Wireless Network Administrator roles within SMB or Enterprise IT organizations, working towards the CCNA Wireless certification. These individuals will have a foundational level knowledge of routing and switching and this certification validates their skills and knowledge as an associate level wireless network engineer.

## **What You Will Learn**

After completion of this course, delegates will be able to:

- Illustrate how wireless networks function and the theory of RF waves. Describe WiFi security and configure clients for WiFi access.
- Define the Cisco wireless network architecture. Implement a centralized wireless network.
- Implement converged network access. Implement small and remote wireless access.
- Perform maintenance and troubleshoot wireless networks.
- Describe the requirements, and site survey types required for wireless design

## **Outline**

Module 1: Wireless Fundamentals

Module 2: Security and Client Access

Module 3: Define the Cisco Wireless Network Architecture

Module 4: Implement Centralized Wireless Access

Module 5: Implement Converged Wireless Access

Module 6: Implement Small and Remote Wireless Access

Module 7: WLAN Maintenance and Troubleshooting

Module 8: WLAN Design

Discovery 1: Practice RF Math

Discovery 2: Calculate EIRP and Choose the Correct Antenna

Discovery 3: Explore the RF

Discovery 4: Analyze Wireless Frames

Discovery 5: Review Centralized Authentication

Discovery 6: Initialize a Centralized WLAN Deployment

Hardware Lab 1: Configure Windows 7 Client Access

Hardware Lab 2: Configuring the Wired Infrastructure

Hardware Lab 3: Configuring the Centralized WLAN Deployment

Hardware Lab 4: Configuring IPv6 Operation in a Centralized WLAN Deployment

Hardware Lab 5: Configuring Security in a Centralized WLAN Deployment

Hardware Lab 6: Configuring Guest Access Using the Anchor WLC

Hardware Lab 7: Deploying a Converged Access WLAN