



Implementing and Operating Cisco Wireless Core Technologies (WLCOR)

***WHERE GREAT TRAINING
HAPPENS EVERYDAY!***



Implementing and Operating Cisco Wireless Core Technologies (WLCOR)

Course Duration

5 days

Course Price

\$4,395.00

44 CLCs

Methods of Delivery

In-Person ILT

Virtual ILT

Onsite ILT

About this Class

The Implementing and Operating Cisco Wireless Core Technologies (WLCOR) training develops professional-level expertise in implementing and operating Cisco enterprise wireless networks. You will learn wireless architecture design and physical infrastructure deployment. You will configure Cisco Catalyst 9800 Series wireless LAN controllers (WLCs), Cisco access points, and Cisco Meraki platforms for secure client connectivity. You will implement advanced features, including roaming and guest networking. You will deploy comprehensive monitoring and management solutions using Cisco Catalyst Center. You will leverage application programming interfaces (APIs) and artificial intelligence (AI) for operational automation and develop systematic troubleshooting methodologies using packet analysis and diagnostic tools.

This training prepares you for the 350-101 WLCOR v1.0 exam. If passed, you earn the Cisco Certified Specialist - Wireless Core certification and satisfy the core exam requirements for the Cisco Certified Network Professional (CCNP) and Cisco Certified Internetwork Expert (CCIE) Wireless certifications. This training also earns you 32 Continuing Education (CE) credits toward recertification.

Implementing and Operating Cisco Wireless Core Technologies (WLCOR)

How you will benefit

This class will help you:

- Acquire hands-on skills in designing, implementing, and operating enterprise-grade Cisco wireless networks, including configuring Cisco Catalyst 9800 Series WLCs, access points, and Meraki platforms
- Learn to leverage APIs and AI-enhanced features within Cisco Catalyst Center to automate complex operational tasks and improve overall network efficiency
- Develop systematic methodologies for diagnosing wireless performance issues and connectivity failures using advanced packet analysis and diagnostic tools
- Deepen your understanding of RF propagation, antenna theory, and the latest 802.11ax/be protocols to build and maintain high-performance, future-ready wireless infrastructure
- Prepare for the 350-101 WLCOR v1.0 exam
- Earn 32 CE credits toward recertification

Why Attend with Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The job roles best suited to the material in this course are:

- Wireless Network Engineers
- Network Architects
- Network Administrators
- Network Automation Engineers

Implementing and Operating Cisco Wireless Core Technologies (WLCOR)

Objectives

After taking this course, you should be able to:

- Analyze wireless governance, topologies, and legacy protocol evolution to establish foundational network design principles
- Analyze RF propagation characteristics and channel behavior to diagnose wireless performance issues
- Apply RF mathematical calculations and antenna theory principles to optimize wireless network performance
- Evaluate 802.11ax and 802.11be protocols to implement high-performance, future-ready wireless networks
- Evaluate wireless network architectures and design physical infrastructure for enterprise deployments
- Configure Cisco wireless controllers and access points to establish secure client connectivity
- Implement secure management access and client policies for operational wireless network
- Analyze client device capabilities and configure connectivity across diverse operating systems
- Configure local WLAN security and authentication mechanisms on controllers
- Configure external WLAN security and authentication
- Implement client roaming protocols and guest networking to extend wireless services
- Implement Cisco Catalyst Center and integration tools for unified wireless network management
- Configure performance and security monitoring to ensure optimal wireless network functionality

Implementing and Operating Cisco Wireless Core Technologies (WLCOR)

Objectives Cont.

- Evaluate and implement API automation and AI-enhanced features for intelligent wireless operations
- Analyze wireless frames using packet capture tools to diagnose network behavior and issues
- Troubleshoot client connectivity and AP join failures using systematic diagnostic methodologies

Prerequisites

The knowledge and skills you are recommended to have before attending this training are:

- Solid foundation in IT literacy (e.g., understanding of common IT concepts and enterprise software)
- Prior experience or basic experimentation using Cisco wireless technologies (e.g., APs and wireless LAN controllers)
- Familiar with RF theory, Wi-Fi standards, security protocols, Cisco wireless architecture (e.g., CAPWAP, centralized access control), Cisco DNA Center, and basic troubleshooting—concepts learned in the WLFNDU Learning Path

Implementing and Operating Cisco Wireless Core Technologies (WLCOR)

Course Outline

Module 1: Wireless Foundation Review

Module 2: Radio Frequencies Review

Module 3: RF Mathematics and Antenna Theory Review

Module 4: Modern Wi-Fi Protocols

Module 5: Physical Wireless Networks

Module 6: Cisco Wireless Network Installation and Configuration

Module 7: Wireless Network Operation

Module 8: Wireless Client Identification and Configuration

Module 9: Wireless Network Security and Local Authentication

Module 10: External Authentication for Wireless Networks

Module 11: Extend the Wireless Network

Module 12: Cisco Wireless Network Management

Module 13: Wireless Network Monitoring

Module 14: APIs and AI with Wi-Fi

Module 15: Wireless Network Analysis

Module 16: Troubleshoot Wireless Network

Implementing and Operating Cisco Wireless Core Technologies (WLCOR)

Lab Outline

Lab 1: Configure Physical Infrastructure of a Wireless Network

Lab 2: Configure Initial Setup of Cisco Wireless Network

Lab 3: Configure WLAN Settings for Client Connectivity

Lab 4: Configure and Secure Dashboard Management Access

Lab 5: Configure Client Management Rules and Policies

Lab 6: Configure Client Connectivity Simulation

Lab 7: Configure Local Authentication on the Catalyst 9800 WLC

Lab 8: Configure External Authentication for Wireless Networks

Lab 9: Configure Guest Networking

Lab 10: Investigate Cisco Catalyst Center

Lab 11: Monitor Wireless Network Performance with Cisco Catalyst Center

Lab 12: Monitor Wireless Network Security with Cisco Catalyst Center

Lab 13: Configure Client Monitoring in Cisco Catalyst Center

Lab 14: Configure Wireless API Functionality

Lab 15: Cisco Catalyst Center AI Capabilities

Lab 16: Analyze Wireless Frames

Lab 17: Troubleshoot Client Connectivity Issues

Lab 18: Troubleshoot AP Join Issues