

Implementing and Operating Cisco Wireless Core Technologies (WLCOR)

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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.

How you'll 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 in 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 primary audience for this course is as follows:

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

Course Duration

5 days

Course Price

\$4,395.00 or 44 CLCs

Methods of Delivery

- Instructor Led
- Virtual ILT
- On-Site

Prerequisites

There are no prerequisites for this training. However, 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

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

Module 17: Wireless Regulations

Module 18: RF Foundations

Module 19: Wireless Mathematics and Antenna Theory

Module 20: Wireless Protocol Foundations

Module 21: Scripting Theory

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: Explore 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