

OUR LEARNING EXCLUSIVE

- Custom exam prep software and materials
- Exam delivery in the classroom, with a **98% success rate**
- Course-specific thinQtank® Learning publications to make the learning fun and engaging
- Extended hours of training, including immersive hands-on exercises
- **We do not teach the test.** We always deliver valuable hands-on experience
- All reading material and study guides sent to you when you register
- Every course taught by CCIE expert instructors

TRAINING CAMP FORMAT

thinQtank® Learning delivers this course as an **instructor-led training camp**, with the exam sat in the classroom as part of the camp. Camps are scheduled by cohort rather than to a fixed calendar, and the balance of lecture and practical lab work is set to suit the group and the delivery method. Contact us for the schedule covering your dates.

PREREQUISITES

- A working knowledge of networking fundamentals, to CCNA level
- Familiarity with wireless LAN concepts and terminology
- Experience with Cisco wireless LAN controllers and access points
- A basic understanding of Python scripting

TARGET AUDIENCE

- Anyone working toward **CCNP Wireless** certification
- Anyone working toward **Cisco Certified Specialist — Wireless Core**
- Anyone preparing for the **CCIE Wireless** lab
- Wireless network engineers, administrators and technicians
- Engineers who design, deploy, operate or troubleshoot Cisco wireless networks
- ENCOR candidates who wanted the wireless content that left that exam in March 2026

DELIVERY METHODS

- Instructor-led training
- Immersive live-online training
- On-site and custom delivery

COURSE OVERVIEW

thinQtank® Learning offers a training camp for **Implementing and Operating Cisco Wireless Core Technologies**, the core course and exam for the new CCNP Wireless track. As with all our Cisco training experiences, the exam is delivered in the classroom.

This certification is new. On 19 March 2026 Cisco removed wireless from the CCNP Enterprise core exam and gave it a track of its own. 350-101 WLCOR is the core of that track, and it is where the wireless content that used to sit inside 350-401 ENCOR now lives — with far more depth than a general enterprise exam could give it.

The course covers RF fundamentals and 802.11 technology, Cisco wireless architectures and their implementation, day-to-day operation, client connectivity and roaming, monitoring and troubleshooting, and the automation and AI capabilities now built into Catalyst Center.

EXAM

350-101 WLCOR — Implementing and Operating Cisco Wireless Core Technologies

120 minutes. Available in English and Japanese. Cisco does not publish a question count or a pass mark for this exam, so this sheet does not state one.

This exam counts three ways. It earns **Cisco Certified Specialist — Wireless Core** on its own, it is the **core exam for CCNP Wireless**, and it qualifies you for the **CCIE Wireless** lab.

This certification is new. Cisco removed wireless from the CCNP Enterprise core exam on 19 March 2026 and launched a dedicated wireless track the same day. Verified against Cisco's exam-topics PDF and the exam page on cisco.com, 1 September 2026.

EXAM DOMAINS 350-101 V1.0

RF Fundamentals		15%
802.11 Technology Fundamentals		10%
Wireless Network Implementation		10%
Wireless Network Operation		20%
Client Connectivity Configuration		20%
Wireless Monitoring and Management		15%
Automation and AI		10%

COMPLETING CCNP WIRELESS

CCNP Wireless takes two exams: this core, plus one concentration.

WLCOR 350-101 CORE + one concentration → CCNP Wireless

The concentrations are **300-110 WLSD** (Designing Cisco Wireless Networks) and **300-120 WLSI** (Implementing Cisco Wireless Advanced Solutions), both v1.2. If you passed **300-425 ENWLSD** or **300-430 ENWLSI** within the last three years, Cisco recognises it in this track — this core exam may complete your CCNP Wireless on its own.

COURSE OBJECTIVES

On completing this course you will be able to:

- Explain radio wave propagation and the behaviour of RF in real environments
- Interpret signal measurements — RSSI, transmit power, receive sensitivity, noise, interference and SNR — and use them to diagnose coverage problems
- Apply the RF mathematics underlying link budgets and power calculations
- Compare Wi-Fi antenna characteristics and select antennas for a deployment
- Describe Wi-Fi governance and the roles of the regulatory bodies, IEEE 802.11 and the Wi-Fi Alliance
- Determine usable channel and power combinations, including EIRP limits, frequency bands and radio resource management
- Explain 802.11 fundamentals — modulation, channel width, MIMO, MU-MIMO and MLO, topologies and frame types
- Compare the Cisco wireless architectures: fabric, mesh, local and cloud
- Implement the physical infrastructure connections a wireless deployment depends on
- Configure management access for access points, wireless LAN controllers and the dashboard
- Perform initial setup and configuration of a Cisco wireless deployment
- Explain the AP discovery and join process, and troubleshoot it when it fails
- Compare the available AP modes and select the right one for a role
- Configure WLAN client access and apply client management rules across platforms
- Implement authentication mechanisms on the controller and against external servers
- Configure client connectivity across the common client operating systems
- Describe roaming, and design for it rather than around it
- Implement guest networking
- Maintain a wireless network, monitor clients and troubleshoot connectivity
- Integrate wireless with the wider Cisco platform estate
- Write and interpret basic Python scripts for wireless automation
- Use NETCONF and YANG, and interpret the infrastructure APIs
- Apply AI analytics and AI-driven operations in Cisco Catalyst Center, including AI-RRM

COURSE OUTLINE

01 RF Fundamentals

- Radio wave propagation
- Signal measurements: RSSI, transmit power, receive sensitivity
- Interference, noise, rogue APs and device capabilities
- Signal-to-noise ratio
- RF mathematics
- Wi-Fi antenna characteristics

02 802.11 Technology Fundamentals

- Wi-Fi governance: regulatory bodies, IEEE 802.11, the Wi-Fi Alliance
- Usable channel and power combinations
- EIRP limits and frequency bands
- Radio resource management
- Modulation and channel width
- MIMO, MU-MIMO and multi-link operation
- 802.11 topologies and frame types

03 Wireless Network Implementation

- Cisco wireless architectures: fabric, mesh, local and cloud
- Physical infrastructure connections
- Management access for the AP, the WLC and the dashboard

04 Wireless Network Operation

- Initial setup and configuration
- The AP discovery and join process
- AP modes
- WLAN client access configuration
- Client management rules across platforms

COURSE OUTLINE CONTINUED

- 05

Client Connectivity Configuration
 - Authentication on the controller
 - Authentication against external servers
 - Client operating system connectivity
 - Roaming
 - Guest networking
- 06

Wireless Monitoring and Management
 - Network maintenance
 - Client monitoring
 - Troubleshooting connectivity
 - Device and platform integrations
- 07

Automation and AI
 - Python scripting basics
 - NETCONF and YANG
 - Interpreting infrastructure APIs
 - AI analytics and AI operations in Catalyst Center
 - AI-RRM

HANDS-ON PRACTICE

Practical work runs throughout the camp and is built around the exam blueprint above, weighted toward the domains that carry the most marks. The balance of instruction and lab time is set to suit the group and the delivery method rather than to a fixed timetable.

Every hands-on exercise is also provided as a virtual build you keep after the camp ends, so the practice does not stop when the week does.

EXCLUSIVE LEARNING PACKAGE

- Comprehensive video training package
- Virtual builds of all labs and hands-on learning objectives, so you can keep practicing after the course ends
- Post-class ongoing Office Hours events — interactive sessions giving you access to top instructors long after your class finishes
- A Cisco-related acronym list to help you with the key terms
- Tips & Tricks — from preparing for your course through post-class review

TERMS

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