

# **CCNP WIRELESS TRAINING AND CERTIFICATION**



IPRulers is the new face of **CCNP Wireless Certification and Training** in Dubai, UAE, which provides both online and class- room-based training in the latest cutting-edge technologies in the IT infrastructure and networking portfolio. With grouped as well as one-to-one classes and online tutorials that could be scheduled for weekdays or weekends in accordance to the students' choice, IPRulers is fast becoming a leading name in Dubai in providing a highly valued Cisco Certificate, with a 100% pass rate on the first attempt. Students can choose between different concentration topics to go with the core topic to customize their certification and keep in touch with the dynamic technologies in the field, all with the help of IPRulers.

The IPRULERS CCNP Wireless Certification Program is a testimony to a candidate's expertise in enterprise wireless networking. It provides comprehensive, technology-focused classes covering advanced wireless concepts, design, implementation, and troubleshooting, led by an expert team of trainers who hold multiple CCIE certifications and possess extensive industry experience with hands-on training.

## COURSE DETAILS

The CCNP Wireless Certification comprises of clearing two exams – one in a core subject, and another in a concentration subject. This gives a CCNP Wireless Badge.

### CISCO CCNP WIRELESS CERTIFICATION TRACK



#### CERTIFIED PROFESSIONAL

1 Technology Core & 1 Concentration exam  
in any order, but from the same track

Wireless

Wireless Exam Options

350-101 WLCOR v1.0

300-120 WLSI v1.2

Clearing only the core subject gives a Core Specialist Badge, which is also the qualification for CCIE Wireless Certifications. This exam tests a candidate's knowledge of implementing core wireless technologies including radio frequency fundamentals, 802.11 technology fundamentals, client connectivity, wireless monitoring and management, automation and AI

This exam certifies a candidate's knowledge of wireless network implementation including FlexConnect, QoS, Multicast, advanced location services, security for client connectivity, monitoring and device hardening

## CCNP WIRELESS CORE EXAM

### 350-101 WLCOR: IMPLEMENTING AND OPERATING CISCO WIRELESS CORE TECHNOLOGIES

#### 1.0 RF Fundamentals

- 1.1 Describe device virtualization technologies
- 1.2 Describe RF signal measurements
- 1.3 Describe the principles of RF mathematics
- 1.4 Describe Wi-Fi antenna characteristics

#### 3.0 Wireless Network Implementation

- 3.1 Describe Cisco wireless architectures
- 3.2 Implement the physical infrastructure connections for a wireless network and components
- 3.3 Implement the AP, WLC, and dashboard management access connections

#### 2.0 802.11 Technology Fundamentals

- 2.1 Describe Wi-Fi governance
- 2.2 Describe usable channel and power combination
- 2.3 Describe 802.11 fundamentals

#### 4.0 Wireless Network Operation

- 4.1 Configure the initial setup of Cisco wireless infrastructures
- 4.2 Implement AP discovery and join process
- 4.3 Implement AP modes
- 4.4 Configure WLAN access for client connectivity
- 4.5 Configure client management rules and policies on multiple platforms such as WLC, Dashboard, Catalyst Center, ISE, Spaces, and mobile device management

## 350-101 WLCOR: IMPLEMENTING AND OPERATING CISCO WIRELESS CORE TECHNOLOGIES

### **5.0 Client Connectivity Configuration**

- 5.1 Configure authentication mechanisms outside the controller
- 5.2 Configure WLAN authentication mechanisms on the controller
- 5.3 Configure client connectivity in different operating systems
- 5.4 Describe roaming
- 5.5 Configure wireless guest networking

### **7.0 Automation and AI**

- 7.1 Interpret basic Python components and scripts
- 7.2 Describe NETCONF/YANG
- 7.3 Interpret wireless infrastructure APIs
- 7.4 Describe AI Analytics in Catalyst Center
- 7.5 Describe AI Operations in Catalyst Center
- 7.6 Describe AI-RRM

### **6.0 Wireless Monitoring and Management**

- 6.1 Manage wireless network maintenance
- 6.2 Configure client monitoring
- 6.3 Troubleshoot client connectivity
- 6.4 Describe device and platform integrations

### **1 .0 FlexConnect**

- 1.1 Deploy FlexConnect components such as switching and operating modes
- 1.2 Deploy FlexConnect capabilities
- 1.3 Implement Office Extend

### **2.0 QOS on a Wireless Network**

- 2.1 Implement QOS schemes based on requirements including wired to wireless mapping
- 2.2 Implement QOS for wireless clients
- 2.3 Implement AVC



### **3.0 Multicast**

- 3.1 Implement multicast components
- 3.2 Describe how multicast can affect wireless networks
- 3.3 Implement multicast on a WLAN
- 3.4 Implement mDNS
- 3.5 Implement Multicast Direct

### **4.0 Location Services**

- 4.1 Deploy CMX and Cisco Spaces on a wireless network
- 4.2 Implement location services

### **5.0 Security for Wireless Client Connectivity**

- 5.1 Configure client profiling on WLC and ISE
- 5.2 Implement BYOD and guest
- 5.3 Implement client security on different wireless architectures and ISE
- 5.4 Implement Identity-Based Networking on different wireless architectures (VLANs, QOS, ACLs)

## 6.0 Monitoring

- 6.1 Utilize reports on Cisco Catalyst Center
- 6.2 Manage alarms and rogues (APs and clients)
- 6.3 Manage RF interferers
- 6.4 Troubleshoot client connectivity

## 7.0 Device Hardening

- 7.1 Implement device access controls (including RADIUS and TACACS+)
- 7.2 Implement access point authentication (including 802.1 X)
- 7.3 Implement Control Plane ACLs on the controller

## MODE OF TRAINING

Classroom-based Training	Online Training	Corporate Training
Go old-school. Make friends and have fun, just like elementary grades. Follow lectures, turn in assignments and appear for exams in campus-style!	Sit in the comfort of your home as you move through the course. Instructors will guide you in predetermined sessions. Hundreds of supporting videos available, in case you want to outshine yourself.	Lectures and hands-on training for office employees, in the comfort of their own office. Sponsored by employers to push up their employees above the market competence.
One-on-One Training	Fast Track Training	Private Group Training
An instructor will train you in private – without any external intrusion. Ideal if you want to progress on your own. Schedule your classes according to your own timeline as you advance, without disruption to your daily routine.	No time to follow regular class timeline? Go fast track – speed through the course, whether it be alone, or online, in groups, on an accelerated timescale, to give the icing on the cake.	You and your friends like to be together in a class, but without any outsiders? You've got it! Feel as if you have hired your own instructor. A way to combat shyness, with the comfort your friend-circle.



**IPRULERS** offers a fully equipped lab specifically designed for CCNP Wireless training, featuring an advanced lab topology that mirrors real-world network environments. Students will have access to a range of configured equipment and software for hands-on practice, with opportunities to explore the latest hardware and software updates during the course.

## CCNP WIRELESS EQUIPMENT AND SOFTWARE LIST

The practical exam tests candidates on solutions that can be configured using the below Equipment and software versions. Candidates may see more recent software versions during their attempt but will only be tested on features that are supported in the list below. Passing the exam requires a depth of understanding difficult to obtain without hands-on experience. Early in your preparation you should arrange access to equipment and software similar to that used on the exam.

**Cisco Catalyst Center — 2.3.x**

**Cisco Identity Services Engine (Cisco ISE) — 3.4.x**

**Windows Server (no candidate configuration required)**

**Wireless clients (Linux/Windows 11) with Cisco Secure Client**

Virtual Machines

**Cisco Catalyst Wireless 9100 Series**

Access Points

**Cisco Catalyst 9800 Series Wireless Controllers**

**Cisco Campus Gateway**

**Cisco Embedded Wireless Controller (EWC) on Catalyst Switches (SD-Access)**

Controllers/Aggregators

**Cisco Catalyst 9300 Series**

**Cisco Catalyst 9200 Series**

Switches

## TARGET AUDIENCE



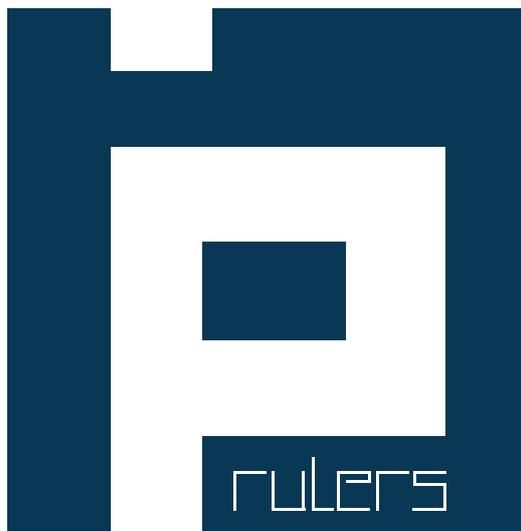
- Network engineers seeking skill enrichment in specific technologies to nourish their passion and career.
- IT students and professionals seeking strong expertise in the subject and an internationally recognized qualification in the same for prospective jobs.

## TRAINER'S PROFILE

- IPRulers is managed by an expert team of trainers with over 15 years' experience in the industry and in hands-on training.
- All the trainers have multiple CCIEs in their respective areas of interest.
- Individual trainers' profiles can be provided upon request by email, along with demos and LinkedIn profiles.
- Online and classroom demos are also available upon request

## BENEFITS

- Internationally valued certification from Cisco. Specialist Certification in any CCNP exam, whether it be core or concentration.
- Eligibility to attend the CCIE Wireless Lab Exam directly by passing the CCNP Core Examination.
- Constant acquaintance to the dynamic technologies in the IT field.
- Refreshment in regular concepts of Wireless
- Authority to link the CCNP Certification Badge to all social media profiles.



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