

# CCIE Enterprise Wireless Workshop - The Practical Exam

This workshop is designed to prepare you for the CCIE Enterprise Wireless Lab exam. It provides participants with a CCIE level of understanding of the topics listed below. The course consists of numerous practical exercises and can extend into the evening.

## Course Contents

- Network Infrastructure – Layer 2
- Network Infrastructure – Routing
- Network Infrastructure – Multicast Routing
- Network Infrastructure – Services
- Autonomous APs
- AireOS Controllers
- Mobility Express
- Identity Services Engine (ISE)
- Prime Infrastructure and CMX
- WLAN Media and Application Services
- Cisco DNAC

## Target Group

This course is designed for those who want to prepare intensively for the practical CCIE® Wireless exam at Cisco.

## Prerequisites

Participants should have the knowledge of a CCNP Enterprise and have successfully completed the exam for the course ENCOR - Implementing and Operating Cisco Enterprise Network Core Technologies (in planning). CCIE candidates should have five to seven years of experience in implementing enterprise solutions before the exam.

## This Course in the Web



You can find the up-to-date information and options for ordering under the following link:

[www.expertech-training.com/go/CIWL](http://www.expertech-training.com/go/CIWL)

## Reservation

On our Website, you can reserve a course seat for 7 days free of charge and in a non-committal manner. This can also be done by phone under +49 6074/4868-0.

## Guaranteed Course Dates

To ensure reliable planning, we are continuously offering a wide range of guaranteed course dates.

## Your Tailor-Made Course!

We can precisely customize this course to your project and the corresponding requirements.

Status 04/23/2025

Training		Prices, excl. of V.A.T.
Classes in Germany	10 Days	€ 13,995
Online Training	10 Days	€ 13,995
Date/course venue		Course language English
06/10-17/10/25	Frankfurt	06/10-17/10/25  Online

# Table of Contents

## CCIE Enterprise Wireless Workshop - The Practical Exam

### Network Infrastructure – Layer 2

- VLANs, VTP & Layer 2 Interfaces
- Spanning Tree
- Rapid-PVSTP
- M-STP
- EtherChannels

### Network Infrastructure – Routing

- IP & IPv6 Addressing
- HSRP
- Static Routing
- OSPF Routing
- EIGRP Routing

### Network Infrastructure – Multicast Routing

- PIM-SM Using Static RP Assignments
- PIM-SM Using Auto-RP
- PIM-SM with BSR
- IPv6 PIM Using Static RP Assignments
- IPv6 PIM Using BSR
- IGMP and MLD

### Network Infrastructure – Services

- DHCPv4, DHCPv6, and SLAAC
- NTP and Date/Time
- CDP, LLDP, Logging, and DNS
- Management Configurations

### Autonomous APs

- IP Addressing, VLANs, and Bridge Groups
- Open SSIDs
- WPA-PSK and WPA-EAP SSIDs
- Band Select and other SSID Settings
- Using RADIUS Server for Authentication
- Client Filtering
- WGB
- Basic Configuration and Client Control
- LEAP and EAP-FAST Authentications
- Additional Configs
- Universal Workgroup Bridges
- Root/Non-Root Bridge- Basic Configurations
- Root/Non-Root Bridge- PEAP and EAP-TLS Authentications
- Radio Configurations
- Management Authentication
- QoS & Services

### AireOS Controllers

- Interfaces and Ports
- AP Controller Discovery, Joins & Failover - IPv4 & IPv6
- WLC HA Pairing
- Management & Services
- RADIUS and Local Authentications
- ACLs
- Rogue Policies
- Local Profiling and Policies
- AP Configurations
- Client Load Balancing and Band Select
- Airtime Fairness
- Radio Settings
- RF Groups, TPC, and DCA
- Coverage Hole Detection
- Client Roaming Enhancements
- RxSOP and Flexible Radio Assignment
- CleanAir
- RF Profiles
- Controller Settings
- Multicast
- DHCP
- Mobility Groups
- WLANs- Non-Guest
- Guest WLANs- Local Web
- Guest WLANs- External Web
- AP Groups
- FlexConnect APs
- Basic Config
- FlexConnect APs- Advanced Config
- OfficeExtend APs
- Mesh APs- Basic Config
- Mesh APs- Wired Bridging

### Mobility Express

- Management Configurations
- Security Configurations
- Wireless Configurations
- Controller Configurations
- WLANs- Non-Guest
- WLANs- Guest
- FlexConnect Configurations

### Identity Services Engine (ISE)

- CLI and Administrative Configs
- Certificates
- Identity Management
- Network Devices
- Authentication Policies

- Authorization Policies
- Policy Sets
- AAA Overrides
- RADIUS Management Auths
- TACACS+ Management Auths
- Client Profiling
- Guest
- Hotspot
- Self Registration
- Sponsor Portal

### Prime Infrastructure and CMX

- PI CLI Configurations
- Maps
- Adding Devices to PI
- Device Configuration Templates
- Configuration Groups and Auditing
- Virtual Domains
- Management AAA
- Administrative Settings
- Reports and Syslogs
- Alarms, Events, and Syslogs
- Rogue Management
- CMX
- Basic Configs
- Detect and Locate
- Connect and Engage

### WLAN Media and Application Services

- Wireless Voice and QoS
- VideoStream
- mDNS
- AVC and NetFlow
- FastLane and Adaptive Fast Transition

### Cisco DNAC

- Overview
- Wireless Automation
- Day 0 - Provisioning
- Application policies
- Security policies
- Operate Maps
- Network telemetry
- SD Access
- Fabric enabled wireless
- SDA policy and segmentation

