



Consulting and Training | Reach New Heights

Course Name

Cisco Certified Network Professional (CCNP) Enterprise

Sector Name

Information Technology

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Cisco Certified Network Professional (CCNP) Enterprise

Course Introduction

The CCNP Enterprise Certification Training is designed for network professionals who want to develop advanced knowledge in enterprise networking technologies and prepare for the professional-level certification from Cisco. This course provides comprehensive training in modern networking concepts, including routing, switching, network security, and network automation used in enterprise IT infrastructures.

Participants will learn how to design, implement, troubleshoot, and optimize complex enterprise networks. The program focuses on critical networking technologies such as advanced routing protocols, switching architectures, software-defined networking, and network virtualization. These skills help IT professionals maintain reliable and scalable network infrastructures within organizations.

The training also prepares learners for the **CCNP Enterprise Certification exam by covering core networking topics such as enterprise network architecture, infrastructure security, network services, and automation using modern network tools. Participants will develop the ability to manage enterprise network environments and improve network performance and security.

By completing this course, network engineers will strengthen their expertise in enterprise networking, network troubleshooting, and infrastructure management, enabling them to support complex IT

environments and advance their careers in networking and infrastructure engineering.

This course is ideal for network engineers, network administrators, IT infrastructure specialists, and professionals pursuing advanced Cisco networking certifications.

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Target Audience

- ✓ Network engineers and administrators working in enterprise environments
- ✓ IT professionals preparing for the Cisco CCNP ENCOR certification
- ✓ Network support specialists looking to advance into implementation roles
- ✓ System engineers seeking to expand their Cisco networking knowledge

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Learning Objectives

- ✓ Design, configure, and troubleshoot complex enterprise networks.
- ✓ Implement core routing and switching technologies.
- ✓ Deploy enterprise wireless infrastructure and security mechanisms.
- ✓ Apply automation tools to streamline network operations.
- ✓ Prepare confidently for the Cisco 350-401 ENCOR exam

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Course Outline

✓ DAY 01

Enterprise Network Architecture & Virtualization

- ✓ Enterprise network design models (3-tier, spine-leaf)
- ✓ High availability and redundancy techniques (FHRP, SSO, StackWise)
- ✓ Virtualization concepts: VRF, GRE, VPNs, L2, and L3 virtualization
- ✓ SD-WAN and SD-Access fundamentals

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Course Outline

✓ Day 02

Switching, Routing, and IP Connectivity

- ✓ Switching concepts: VLANs, trunking, EtherChannel, STP
- ✓ Routing protocols: OSPFv2/v3, EIGRP, and BGP basics
- ✓ Route summarization and filtering
- ✓ IPv4 and IPv6 address planning and subnetting
- ✓ Troubleshooting Layer 2 and Layer 3 connectivity

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Course Outline

✓ Day 03

Network Services and Wireless Technologies

- ✓ Network services: NAT, NTP, DHCP, and multicast (IGMP, PIM)
- ✓ Quality of Service (QoS): classification, marking, queuing
- ✓ Wireless architectures: centralized, distributed, controller-less
- ✓ Wireless roaming, RF fundamentals, client connectivity
- ✓ Wireless authentication and guest access solutions

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Course Outline

✓ Day 04

Network Security and Infrastructure Protection

- ✓ Securing infrastructure devices and control plane protocols
- ✓ Implementing AAA, RADIUS, and TACACS+
- ✓ Access control lists (ACLs) and segmentation techniques
- ✓ Device hardening, secure management, and password policies
- ✓ Network telemetry and monitoring tools

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Course Outline

✓ Day 05

Automation, Programmability & Exam Preparation

- ✓ Introduction to network automation and programmability
- ✓ Understanding APIs, RESTCONF, NETCONF
- ✓ Using Cisco DNA Center and automation scripts (Python basics)
- ✓ Review of key exam domains
- ✓ Practice exam questions and exam readiness tips

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 14, 2027	June 18, 2027	5 days	4250.00 \$	UAE , Dubai
Aug. 31, 2026	Sept. 4, 2026	5 days	4950.00 \$	England , London
March 15, 2027	March 19, 2027	5 days	4250.00 \$	UAE , Dubai
Oct. 5, 2026	Oct. 9, 2026	5 days	4250.00 \$	UAE , Abu Dhabi

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