



CISCO TRAINING

CCNP Enterprise: Implementing Cisco Enterprise Network Core Technologies (ENCOR) v1.3

Master Cisco Enterprise Network Core Technologies (ENCOR 350-401) to design and implement advanced network solutions effectively.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

The CCNP Enterprise: Implementing Cisco Enterprise Network Core Technologies (ENCOR) v1.3 course is a comprehensive, intermediate-level program designed to equip network professionals with the critical skills needed to implement and operate enterprise-level Cisco networks. This intensive training delves deep into the core technologies that form the backbone of modern networks, covering essential areas such as dual-stack architecture (IPv4 and IPv6), virtualization, infrastructure, network assurance, security, and automation. Participants will gain practical expertise in configuring, troubleshooting, and managing wired and wireless enterprise networks, preparing them to design robust, scalable, and secure network solutions, ensuring high availability and performance. This course is the foundational examination for the CCNP Enterprise certification, making it indispensable for those aiming to validate their advanced knowledge and hands-on capabilities in enterprise networking. The emphasis on automation and programmability also prepares professionals for the evolving landscape of network operations, enabling them to streamline tasks and enhance efficiency. Upon successful completion, you will not only be prepared to pass the 350-401 ENCOR exam but also possess the strategic insights and technical prowess to contribute significantly to complex network environments. This certification validates your ability to manage advanced routing, switching, wireless, and security solutions, positioning you as a valuable asset in any enterprise IT team.

Duration	2 hours
Level	Intermediate
Vendor	Cisco
Exam Code	350-401

PREREQUISITES

- Understanding of OSI model
- Basic TCP/IP networking
- Familiarity with network devices (routers, switches)
- Basic command-line interface experience

COURSE CURRICULUM

01 Module 1: Enterprise Network Architecture

- Enterprise Network Design Principles
- High Availability and Redundancy Protocols
- Campus LAN Design (Layer 2 and Layer 3)
- SDN Architecture and Components
- SD-WAN Concepts and Topologies

02 Module 2: Virtualization

- Network Virtualization Technologies (VRF-Lite, GRE)
- Device Virtualization (Cisco StackWise, VSS, VDC)
- Server and Data Center Virtualization Concepts
- Overlay Technologies (VXLAN, LISP)

03 Module 3: Infrastructure Services

- Advanced Routing Protocols (OSPFv2/v3, EIGRP, BGP)

- IP Services (DHCP, NAT, NTP, PTP, HSRP, VRRP, GLBP)
- Quality of Service (QoS) Mechanisms
- Wireless LAN Architecture and Components
- Multicast Routing Concepts and Implementation

04 Module 4: Network Assurance

- Monitoring Tools and Methodologies (SNMP, NetFlow, IP SLA, Syslog)
- Troubleshooting Methodologies for Enterprise Networks
- Device Management and Maintenance
- Cisco DNA Center Assurance Features
- Packet Capture and Analysis Techniques

05 Module 5: Security

- Device Access Control (AAA, TACACS+, RADIUS)
- Infrastructure Security (ACLs, CoPP, Control Plane Policing)
- Wireless Security Protocols (WPA2/3, EAP, EAP-TLS)
- VPN Technologies (Site-to-Site IPsec VPN, DMVPN)
- Network Access Control (802.1X)

06 Module 6: Automation

- Network Programmability Fundamentals (Controller-based vs. Device-centric)
- Data Models (YANG, JSON, XML)
- REST APIs and RESTCONF Protocols
- Configuration Management with Python and Ansible Basics
- Cisco EEM (Embedded Event Manager)

07 Module 7: Troubleshooting and Implementation Review

- Comprehensive Troubleshooting Scenarios
- Best Practices for Enterprise Network Implementation
- Exam Preparation and Review

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Senior Enterprise Network Engineer**
- > **Network Operations Center (NOC) Team Lead**
- > **Wireless Network Specialist/Architect**

FREQUENTLY ASKED QUESTIONS

Q: What are the recommended prerequisites for effectively undertaking the CCNP ENCOR v1.3 course?

While there are no formal prerequisites for the ENCOR exam, Cisco recommends that candidates have 3 to 5 years of experience implementing enterprise networking solutions. A solid understanding of CCNA-level concepts, including basic routing and switching, IP addressing, and network fundamentals, will be highly beneficial for success in this advanced course, ensuring you can grasp the complex topics covered.

Q: How does the ENCOR v1.3 course prepare me for designing and deploying advanced security features in a modern enterprise network?

The ENCOR v1.3 curriculum dedicates significant focus to enterprise network security. You will learn to implement device access control using AAA, secure network infrastructure with ACLs and Control Plane Policing, configure robust wireless security protocols like WPA3 and EAP, and deploy various VPN technologies such as IPsec site-to-site and DMVPN. This comprehensive coverage ensures you can design and integrate secure solutions tailored to complex enterprise environments.

Q: What specific automation and programmability skills will I acquire in this ENCOR v1.3 course that are directly applicable to modern network operations?

This course extensively covers the foundational aspects of network automation and programmability. You will gain proficiency in understanding network programmability fundamentals, working with data models like YANG, JSON, and XML, and utilizing REST APIs for network interaction. Furthermore, the course introduces basic configuration management using scripting tools like Python and Ansible, along with Cisco's Embedded Event Manager (EEM), preparing you to automate routine tasks and enhance operational efficiency in a programmable network.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

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50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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