BLACKBIRD FOR TRAINING

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

4 – 8 April 2027
Cairo (Egypt)



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## Introduction

The Implementing Cisco Enterprise Network Core Technologies ENCOR v1.3 course provides a comprehensive and practical exploration of the foundational and advanced concepts of enterprise network technologies. This intensive training is tailored for network professionals preparing for the Cisco ENCOR certification ENCOR 350-401 and for those seeking to advance their careers in enterprise networking roles.

Participants will gain hands-on experience in implementing IPv4 and IPv6 dual stack architectures, virtualization, network security, assurance, and network automation. The course combines interactive modules with practical labs, ensuring that participants can confidently design, implement, and troubleshoot enterprise routing and switching solutions.

## Course Objectives

By the end of this course, participants will be able to:

- Understand and configure both wired and wireless enterprise network architectures.
- Implement, optimize, and troubleshoot enterprise-level routing and switching protocols.
- Apply virtualization principles to modern enterprise networks.
- Utilize network assurance techniques to monitor performance and diagnose issues effectively.
- Enhance network security with policy-based approaches, segmentation, and access control.
- Automate and manage enterprise network operations using programmability and modern tools.
- Prepare thoroughly for the Cisco ENCOR certification ENCOR 350-401, a key milestone within the CCNP Enterprise path.

## Course Outlines

### Day 1: Architecture and Infrastructure Essentials

- Overview of enterprise network architecture: campus, WAN, and data center designs.
- Layer 2 and Layer 3 infrastructure concepts and implementation.
- Redundancy protocols: HSRP, VRRP, and GLBP.
- Fundamentals of wireless architecture and deployment models.
- Introduction to virtualization in networking hypervisors and virtual networking.



## Day 2: Switching, Routing, and Wireless Technologies

- Configuring VLANs, trunking, and spanning-tree protocols for network stability.
- Deployment and optimization of OSPF and EIGRP.
- Overview of BGP and its enterprise use cases.
- Understanding wireless standards, roaming mechanisms, and wireless QoS.
- Securing WLANs with WLC and lightweight access points.

## Day 3: Network Assurance and Troubleshooting

- Using SNMP, NetFlow, and Cisco DNA Center for performance monitoring.
- Troubleshooting common Layer 2 and Layer 3 issues.
- Packet flow analysis with SPAN and RSPAN.
- Effective logging and Syslog management for enterprise operations.
- Wireless and client connectivity troubleshooting best practices.

## Day 4: Security in the Enterprise Network

- Foundations of enterprise security architecture.
- Implementing AAA TACACS+, RADIUS for device access control.
- Securing the control plane and management plane for robust network protection.
- Mitigating VLAN-based attacks and ensuring segmentation with VRFs.
- Using access control lists ACLs for precise security policies.

## Day 5: Automation, Programmability, and Final Review

- Introduction to Cisco SDN and controller-based network designs.
- Understanding REST APIs and NETCONF/YANG for network programmability.
- Configuration management with Python, Ansible, and Cisco DNA Center.
- Developing an enterprise automation strategy and real-world use cases.
- Final Q&A session, comprehensive review of all objectives, and preparation strategies for the ENCOR 350-401 exam.

# Why Attend this Course: Wins & Losses!

- Master the skills to design, implement, and troubleshoot modern enterprise networks.
- Acquire practical expertise with enterprise routing, switching, wireless, and automation.
- Gain a deep understanding of virtualization, network security, and assurance tools.
- Be fully prepared for the Cisco ENCOR certification ENCOR 350-401 — a critical milestone within the CCNP Enterprise certification.
- Boost your career opportunities and credibility in the evolving world of enterprise networking.



## Conclusion

The Implementing Cisco Enterprise Network Core Technologies ENCOR v1.3 course is an essential investment for professionals who aspire to master the challenges of modern enterprise network technologies.
By covering topics such as IPv4 and IPv6, network automation, virtualization, security, and network programmability, this training program ensures you're fully equipped to manage complex enterprise environments with confidence.

**Completing this course and earning the Cisco ENCOR certification will position you as a skilled network engineer capable of leading in today's competitive enterprise networking landscape. Join this course and elevate your skills, your confidence, and your career!**

