Cisco Implementing and Operating Cisco Enterprise Network Core Technologies v1 (ENCOR)

COURSE OVERVIEW

The Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR) v1.2 course provides the knowledge and skills needed to configure, troubleshoot, and manage enterprise wired and wireless networks. You'll learn to implement security principles within an enterprise network and how to overlay network design by using solutions such as SD-Access and SD-WAN.

WHO SHOULD ATTEND?

The course is designed for network engineers, network administrators, system engineers, and IT professionals responsible for configuring, managing, and troubleshooting enterprise network infrastructures. It is also suitable for network architects, technical support personnel, and individuals preparing for the Cisco CCNP Enterprise certification. This course is ideal for anyone seeking to enhance their skills in implementing core enterprise network technologies, including routing, switching, security, automation, and wireless networking.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Configure and troubleshoot Layer 2 technologies, including VLANs, trunking, Spanning Tree Protocol (STP), and EtherChannel.
- Implement Layer 3 routing protocols such as EIGRP, OSPF, and BGP, including route filtering and redistribution.
- Deploy enterprise-level infrastructure services, including DHCP, NAT, NTP, and Quality of Service (QoS).
- Implement and verify network security features, including device access control, infrastructure security, and VPN technologies.
- Describe and implement network automation tools and programmability concepts using REST APIs, NETCONF, and YANG.
- Implement high-availability mechanisms, including HSRP, VRRP, and GLBP, for network redundancy and resilience.
- Troubleshoot enterprise networks using network analysis tools, including show and debug commands.
- Explain and implement wireless network concepts, including AP deployments, wireless controllers, and client connectivity.
- Describe the principles of SD-Access and SD-WAN solutions for enterprise network management.
- Optimize network performance through effective monitoring, troubleshooting, and security practices.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Enterprise networking concepts including dual-stack (IPv4 and IPv6) architecture.
- Virtualization technologies such as virtualization protocols and services.
- The use of infrastructure fundamentals like routing, switching, and wireless LAN operations.
- Implementing network assurance using monitoring tools and telemetry.
- Enhancement of network security with access control, segmentation, and security protocols.
- Automation with Python, REST APIs, and Cisco DNA Center.
- How to prepare for the Cisco Certified Network Professional (CCNP) Enterprise certification core exam.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.
1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded