



350-401 ENCOR Overview

The CCNP 350-401 ENCOR course will guide an aspirant's knowledge and skills about implementing core enterprise network technologies including network assurance, dual stack architecture (IPv4 and IPv6), infrastructure, security, automation and virtualization.

This course which is part of four new certifications will help you to prepare the 350-401 Implementing Cisco® Enterprise Network Core Technologies (ENCOR) exams:

- CCNP® Enterprise
- CCIE® Enterprise Infrastructure
- CCIE Enterprise Wireless
- Cisco Certified Specialist – Enterprise Core

About the training

- **Study Material:-** Live Training, Online lectures, Streaming Recorded Videos, Online Lab Workbook, and Remote Virtual Lab access.
- **Duration:-** 5 Days (40 Hours)

Requirements

Candidates should have basic knowledge of Enterprise routing and wireless connectivity, Python scripting and Implementation of Enterprise LAN networks.

What you will learn

- Implementation and optimization of Open Shortest Path First (OSPF)v2 and OSPFv3, including summarization, and route filtering, adjacencies, packet types, and areas for IPv4 and IPv6
- Understanding hierarchical network design model and architecture using the access, distribution, and core layers
- Explain the elements and characteristics of Cisco SD-WAN solutions, including the orchestration plane, management plane, control plane, and data plane
- Explain how to Troubleshoot Layer 2 connectivity using VLANs and trunking
- Implementing overlay technologies such as Virtual Routing and Forwarding (VRF), Location Identifier Separation Protocol (LISP), Generic Routing Encapsulation (GRE), and VPN
- Explain network programmability protocols such as Network Configuration Protocol (NETCONF) and RESTCONF

- Describe the purpose, function, features, and workflow of Cisco DNA Center™ Assurance for Intent-Based Networking, for network visibility, proactive monitoring, and application experience

About Instructor

The trainer of this course has 9+ years of industrial experience and is expert in technology. The trainer is also verified by UniNets itself. He has delivered vast and complex project on the same around the world.

Course content

- Understanding Cisco Enterprise Network Architecture
- Brief knowledge of Cisco Switching Paths
- Implementing Campus LAN Connectivity
- Building Redundant Switched Topology
- Implementing Layer 2 Port Aggregation
- Brief knowledge of EIGRP
- Implementing OSPF
- Optimizing OSPF
- Exploring EBGp
- Implementing Network Redundancy
- Implementing NAT
- Introducing Virtualization Protocols and Techniques
- Brief knowledge of Virtual Private Networks and Interfaces
- Brief knowledge of Wireless Principles
- Understanding Wireless Deployment Options
- Brief knowledge of Wireless Roaming and Location Services
- Understanding Wireless AP Operation
- Brief knowledge of Wireless Client Authentication
- Troubleshooting Wireless Client Connectivity
- Introducing Multicast Protocols
- Introducing QoS
- Implementing Network Services
- Using Network Analysis Tools
- Implementing Infrastructure Security
- Implementing Secure Access Control
- Brief knowledge of Enterprise Network Security Architecture
- Understanding the Cisco SD-Access Solution
- Brief knowledge of the Working Principles of the Cisco SD-WAN Solution
- Brief knowledge of the Basics of Python Programming
- Understanding Network Programmability Protocols
- Understanding APIs in Cisco DNA Center and vManage

Lab outline

- Investigate the CAM

- Analyze Cisco Express Forwarding
- Troubleshoot VLAN and Trunk Issues
- Arrange Multiple Spanning Tree Protocol
- Troubleshoot EtherChannel
- Implement Multi-area OSPF
- Implement OSPF Tuning
- Apply OSPF Optimization
- Implement OSPFv3
- Arrange and Verify Single-Homed EBGP
- Implementing Hot Standby Routing Protocol (HSRP)
- Arrange Virtual Router Redundancy Protocol (VRRP)
- Implement NAT
- Arrange and Verify Virtual Routing and Forwarding (VRF)
- Arrange and Verify a Generic Routing Encapsulation (GRE) Tunnel
- Arrange Static Virtual Tunnel Interface (VTI) Point-to-Point Tunnels
- Arrange Wireless Client Authentication in a Centralized Deployment
- Troubleshoot Wireless Client Connectivity Issues
- Arrange Syslog
- Arrange and Verify Flexible NetFlow
- Arrange Cisco IOS Embedded Event Manager (EEM)
- Troubleshoot Connectivity and Analyze Traffic with Ping, Traceroute, and Debug
- Arrange and Verify Cisco IP SLAs
- Arrange Standard and Extended ACLs
- Arrange Control Plane Policing
- Implement Local and Server-Based AAA
- Writing and Troubleshooting Python Scripts
- Explore JavaScript Object Notation (JSON) Objects and Scripts in Python
- Use NETCONF Via SSH
- Use RESTCONF with Cisco IOS XE Software

Note: ***Most of the course topics are covered with hands-on lab exercises and others are theoretical

Thank You

Visit us

<https://www.uninets.com/>