

CLASSES

GET TRAINING BY
CERTIFIED TRAINERS
AND INDUSTRY
EXPERTS



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Training Type
Online

Course Duration 1.5 Months

No of Hours 2 Hours/Day

Certificate CCNP Enterprise

Skill Level Intermediate

Study Material Yes

Batches Available Weekdays/Weekends CCNP ENTERPRISE
CERTIFICATION
PROVES YOUR SKILLS
WITH CISCO
ENTERPRISE
NETWORKING
SOLUTIONS.



CCNP ADVANCED ROUTING

START YOUR LEARNING WITH CORE NETWORKING CLASSES



COURSE CONTENT

Fundamental Routing Concepts

- Characteristics of Routing Protocols
- Routing Decision
- Routing Protocol Selection
- Network Topology Fundamentals
- o Unicast
- o Broadcast
- o Multicast
- o Anycast
 - Remote Site Connectivity
- MPLS Based Virtual Private Networks
- Tunnel Based Virtual Private Networks

02 VPN Technology

- MPLS Layer 2 VPN
- MPLS Layer 3 VPN
- GRE Point to Point
- GRE Multipoint
- DMVPN

03 IGP Routing Protocols

- RIP Understanding
- RIP Messages
- RIP Timers
- Poison Reveres
- Update Process
- Configuring RIP Protocol
- Verifying RIP
- IPv6 Review and RIPng
- Verifying RIPng

Fundamental EIGRP Concepts

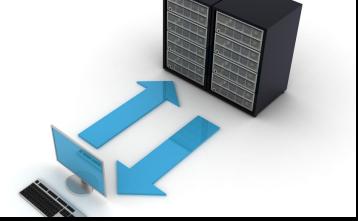
- EIGRP Neighborship
- Configuration & Verification
- Advanced EIGRP Concepts
- EIGRP Topology Tables
- EIGRP Update Process
- EIGRP Metric Tuning
- EIGRP Load Balancing
- EIGRP Convergence
- Route Filtering using ACL, Prefix-list
 & Route-map
- Configuration EIGRP for IPv6
- Verifying EIGRP for IPv6
- Configuring EIGRP for Named Mode
- Named Mode Parameters
- Named Mode Features

BE EXPERT IN CCNP ADVANCED ROUTING

Fundamental OSPF Concepts

- OSPF Review
- OSPF Neighbors and Adjacencies on LAN's
- OSPF Neighbors and Adjacencies on WAN's
- OSPF Network Type
- OSPF DR & BDR Concepts
- The OSPF Link-State Database
- LSA and the OSPF Link-State Database
- The Database Exchange Process
- Advanced OSPF Concepts
- OSPF Route Cost Calculation
- OSPF Metric Tuning
- OSPF Database Flooding
- OSPF over DMVPN
- OSPF Loop prevention
- OSPF Route Filtering
- Route Summerization
- Normal and Stub Areas
- Default Route Originate Process
- OSPF version 3





Route Redistribution and Selection

- Understanding Route Redistribution
- Redistribution RIP to EIGRP & Vice Versa
- Redistribution EIGRP to OSPF & Vice Versa
- Redistribution RIP to OSPF & Vice Versa
- ASymetric Routing on Redistribution
- Domain Loop Problems with two Redistribution point
- Preventing Loop Problem
- Understanding Route Selection
- Cisco Express Forwarding
- Local Policy Based Routing
- Global Policy Based Routing
- Understanding VRF-Lite
- Configuring VRF Lite

07 Internet Connectivity

- Fundamentals of Internet Connectivity
- Static IP Address Assignment
- Dynamic IP Address Assignment
- Static NAT
- Dynamic NAT
- PAT
- Destination Based NAT

08 BGP

- Basic BGP Process
- Understanding BGP use and Benefits
- BGP ASNs
- BGP States & Messages
- Fundamental BGP Concepts
- IBGP and EBGP Understanding
- Neighborship Configuration & Parameters
- IBGP & EBGP Loop Prevention
- Advanced BGP Concepts
- Verifying BGP Tables
- Injecting Routes into BGP
- Route Filtering and Clearing BGP Peers
- Inbound Outbound Path Manipulation
- BGP Path Attribute and Best-Path Algorithm
- BGP Single Homed
- BGP Dual Homed
- Single Multihomed
- Dual Multihomed
- Understanding IPv6 Internet Connectivity
- Configuring IPv6 BGP Neighborship
- Verifying IPv6 BGP Neighborship
 - IPv6 Traffic Over IPv4 Address (Core BGP with IPv4)

Routing Protocol Authentication

- Authentication Method
- EIGRP Authentication
- OSPF Authentication
- BGP Authentication



Og Router and Routing Security

- Fundamental Router Security Concepts
- Password Encryption Line vty
- Password Encryption Line Console