Cisco Implementing Cisco IP Routing (CCNP Route) v2.0

Modality: On Demand

Duration: 10 Hours

This course sets you up for the exam of 300-101 ROUTE prompting the Certification of 300-101 ROUTE. This course has no Voucher of Official Exam but you can demand to buys the Official Exam Voucher independently.

About this course:

The qualifying exam of Implementing Cisco IP Routing is for the certifications of Cisco Certified Internetwork Professional CCIP®, Cisco Certified Network Professional CCNP®, and Cisco Certified Design Professional CCDP®. The exam of ROUTE will validate that the applicant has the information and abilities important to utilize propelled IP addressing and routing in executing secure and scalable Cisco ISR routers associated with WANs and LANs. Also, the exam covers the setup of secure routing solutions for mobile workers and support branch offices.

The protocol knowledge of routing and switching from this credential will give an enduring basis as these abilities are similarly pertinent in the physical systems of today and the virtualized network elements of tomorrow. The individuals who accomplish CCNP Routing and Switching have shown the abilities required in big business jobs, for example, Support Engineer, Systems Engineer, Network Engineer, or Network Technician.

The normal pay for a specialist of Network and Server Infrastructure is $100,000 every year.

Course Objective:

With the completion of this course, learners will have a working understanding of:

- Frameworks for complex enterprise networks.
- Models
- Architectures
- Documenting
- Creating
- An overview of IP Routing and executing an implementation plan.

Audience:

This course is planned for:

- Channel Partner / Reseller
- Network Engineer
- Customer

Prerequisites:

The information and aptitudes that a student must have before going to this Curriculum are as per the following:

- Define the fundamentals of the network.
- Working a medium-sized LAN with different supporting VLANs, switches, spanning tree, and trunking.
- Configuring and troubleshooting OSPF and EIGRP (IPv4 and IPv6)
- Managing device security of the network.
- Managing images of Cisco IOS, device configurations of Cisco, and licenses.
- Setting up WAN and Internet connectivity (IPv4 and IPv6)
- Troubleshooting the IP connectivity (IPv6 and IPv4)
- Designing devices for Syslog, SNMP, and NetFlow access

Suggested prerequisites courses:

Part 1 ICND1 -- Cisco CCENT/CCNA Interconnecting Cisco Networking Devices

Part 2 ICND2 -- Cisco CCNA Interconnecting Cisco Networking Devices

Course Outline:

- **Module 01 - Routing Services**
- **Module 02 - Configuring the Enhanced Interior Gateway Routing Protocol**
- **Module 03 - Configuring the Open Shortest Path First Protocol**
- **Module 04 - Manipulating Routing Updates**
- **Module 05 - Implementing Path Control**
- **Module 06 - Implementing a Border Gateway Protocol Solution for ISP Connectivity**
- **Module 07 - Implementing Routing Facilities for Branch Offices and Mobile Workers**
- **Module 08 - Implementing IPv6 in the Enterprise Network**