

CCENT + CCNA + CCDA Triple Certification Training Boot Camp (CS-CCNA+CCDA)

Modality: Virtual Classroom

Duration: 7 Days

CLC: 45 Units

About this course:

The course of Building Cisco Service Provider Next-Generation Networks, Part 2 is related to the certification of CCNA Service Provider. The course is an Instructor Lead Training course for 5-days that gives network technicians and engineers the information and aptitudes important to actualize and support a network of the service provider. The course gives information on the significant parts of a network of service provider development and the architecture of Cisco service provider IP NGN. The course additionally incorporates classroom exercises with remote labs that are valuable to increase useful aptitudes for deploying IOS XE / Cisco IOS and the software features of Cisco IOS XR to work and support the networks of a service provider. Also, this course supports the understudies in the groundwork for the exam of Cisco: 640-878 SPNGN2.

Salary Estimate:

The normal compensation for an Engineer of the Cisco Certified Network is \$77,484 every year.

Course Objectives:

After finishing this course, learners will have the ability of:

1. Describe the architecture of the Cisco IP NGN.
2. Describe the concepts of routing as they apply to a P-network and talk about contemplations when executing routing on the network
3. Increase a little LAN switched to a medium-sized LAN with different switches, supporting VLANs, STP, and trunking.
4. Implement and describe basic MPLS
5. Implement protocols of internal and external routing: IS-IS, OSPF, and BGP
6. Define the basics of Cisco IOS XR innovation.

7. Explain when to utilize NAT and apply NAT on Cisco routers
8. Decide how to implement ACLs on a P-network and apply ACLs that depend on network requirements.
9. Explain concepts of basic IPv6 and utilize various configuration situations to execute IPv6

Targeted Audience:

This course is projected for:

- Network managers
- Network engineers
- Network administrators

Prerequisites:

- Basic computer literacy
- Basic navigation skills of Microsoft Windows
- Basic skills of Internet usage
- Basic understanding of networking concepts
- Basic information of Cisco IOS XE, Cisco IOS, and Cisco IOS XR Software configuration

Recommended prerequisite courses:

- CS-SPNGN1 - Developing Cisco Service Provider Next-Generation Networks, Part 1 (SPNGN1) 1.2
- IINS - Implementing Cisco IOS Network Security

Course Outline:

ICND1 Outline:

- **Module 1: Building a Simple Network**
- **Module 2: Establishing Internet Connectivity**
- **Module 3: Summary Challenge**
- **Module 4: Building a Medium-Sized Network**
- **Module 5: Network Device Management and Security**
- **Module 6: Summary Challenge**
- **Module 7: Introducing IPv6**

ICND2 Outline:

- **Module 1: Small Network Implementation**
- **Module 2: Medium-Sized Switched Network Construction**
- **Module 3: Medium-Sized Routed Network Construction**
- **Module 4: Single-Area OSPF Implementation**
- **Module 5: EIGRP Implementation**
- **Module 6: Access Control Lists**
- **Module 7: Address Space Management**
- **Module 8: LAN Extension into a WAN**

DUCCE Outline:

- **Module 1: Cisco Unified Contact Center Enterprise v10 Foundations**
- **Module 2: Preparing UCCE for Basic IVR Scripting**
- **Module 3: Preparing UCCE for Basic Agent Functionality**
- **Module 4: Installing and Configuring CCE VXML Solution**
- **Module 5: Installing CCE Outbound Option**
- **Module 6: Supporting CCE**

DESGN Outline:

- **Module 1: Applying a Methodology to Network Design**
- **Module 2: Structuring and Modularizing the Network**
- **Module 3: Designing Basic Campus and Data Center Networks**
- **Module 4: Designing Remote Connectivity**
- **Module 5: Designing IP Addressing and Selecting Routing Protocols**
- **Module 6: Evaluating Security Solutions for the Network**
- **Module 7: Identifying Voice Networking Considerations**
- **Module 8: Identifying Wireless Networking Considerations**
- **Module 9: Implementing and Operating the Network Design?**