Cisco Certified Network Professional (CCNP) Enterprise

Price	Duration	Delivery Methods
$2,995.00	5 Daytime Classes Or 10 Evening Classes	Virtual, In-Person, Private Group,

CAREER SKILLS+™

Course Description:

This course targets network engineers and IT professionals looking to enhance their skills in enterprise network solutions. The training covers a wide range of topics necessary for the deployment, management, and troubleshooting of enterprise network environments. Participants will be prepared for the CCNP Enterprise certification, which includes both a core exam and one of several concentration exams that allow candidates to tailor their certification to their specific area of interest or expertise.

Certification Preparation:

The course prepares participants for the 350-401 ENCOR (Implementing Cisco Enterprise Network Core Technologies) exam and provides foundational knowledge for one of the concentration exams.

Learning Mode: Hybrid. Instructor-Led and Self-Paced

Duration: Varied, typically between 5-10 days of instructor-led training supplemented by extensive self-study.

Materials Provided: Digital courseware, including labs, practice exercises, and study guides.

Who Should Attend

This course is ideal for senior network engineers, network architects, and network professionals with extensive experience in designing, implementing, and managing enterprise networking solutions.

Course Objectives

Core Network Technologies: Understand and implement core enterprise network technologies including routing, switching, wireless, and related security.
Architecture: Gain insights into enterprise network architecture, including network design and deployment strategies.
Virtualization: Explore network virtualization technologies and solutions.
Infrastructure: Master the deployment, management, and troubleshooting of infrastructure components such as routers, switches, and wireless networks.
Network Assurance: Learn techniques for ensuring network health through diagnostics and analytics.
Security: Implement security principles and best practices within an enterprise network.
Automation: Understand and apply network automation and programmability using scripts and automation tools.

Course Prerequisites

Required Certifications: Basic understanding of networking concepts, foundational Cisco routing and switching knowledge.
Certifications: Recommended to hold Cisco CCNP Enterprise certification or equivalent knowledge and experience.
Technical Skills: Practical experience with deploying, managing, and troubleshooting network environments is beneficial.

Agenda

1. Lessons

Overview of Enterprise Network Architecture
Advanced Routing Technologies: OSPF, EIGRP, BGP
Switching Solutions: VLANs, STP, VTP, EtherChannel
Wireless Network Deployment and Management
Network Security: Secure Routing and Switching
Network Virtualization and Technologies
SD-WAN Solutions and Configuration
Network Automation and Orchestration
Quality of Service (QoS) Concepts and Configuration
Diagnosing and Resolving Network Issues

2. Lab Outline

Configuring and Optimizing OSPF, EIGRP, and BGP in an Enterprise Network
Implementing and Troubleshooting VLANs, STP, and EtherChannel
Deploying and Managing Enterprise Wireless Networks
Implementing Security Features on Enterprise Devices
Configuring Network Virtualization Frameworks
Setting Up and Managing SD-WAN Solutions
Developing and Deploying Network Automation Scripts
Applying QoS for Voice and Video Traffic in Enterprise Networks
Using Diagnostic Tools and Network Management Software