Course Title: CCNA 4: Accessing the WAN

Duration: Ten (10) Days

Class Schedule: 9:00am to 5:00pm


Total Hours: 70 Hours

Course Description: This course explains the principles of traffic control and access control lists (ACLs) and provides an overview of the services and protocols at the data link layer for wide-area access. Students learn about user access technologies and devices and discover how to implement and configure Point-to-Point Protocol (PPP), Poin-to-Point Protocol over Ethernet (PPPoE), DSL, and Frame Relay. WAN security concepts, tunneling, and VPN basics are introduced. The course concludes with a discussion of the special network services required by converged applications and an introduction to quality of service (QoS).

Course Contents:

- Managing Traffic:
  - Access Control Lists
- Addressing Hosts:
  - Network Address Translation
  - Dynamic Host Configuration Protocol and
  - IPv6 Basics
- Security
- Introduction to WAN Technologies
- WAN Devices and Connections:
  - CSU
  - Cable Modem and
  - DSL Modem
- Connecting to the WAN:
  - Leased Lines
  - Cable and
  - DSL
- Point-to-Point Protocol and Point-to-Point over Ethernet
- Frame Relay
- QoS Considerations
- Tunneling Concepts and VPN Basics
- Converged Networks