



CORE NETWORKING CLASSES

**GET TRAINING BY
CERTIFIED TRAINERS
AND INDUSTRY
EXPERTS**



JOIN US

OVERVIEW

Training Type
Online

Course Duration
1.5 Months

No of Hours
2 Hours/Day

Certificate
CCNA 200-301

Skill Level
Begginer

Study Material
Yes

Batches Available
Weekdays/Weekends

**FOUNDATIONAL
KNOWLEDGE FOR ALL
SUPPORT TECHNICIANS
INVOLVED IN THE BASIC
INSTALLATION,
OPERATION, AND
VERIFICATION OF
CISCO NETWORKS.**



CCNA 200-301

**START YOUR
LEARNING WITH
CORE NETWORKING
CLASSES**



CONTENT

COURSE CONTENT

01 Introduction to Networking

- Introduction to Topology Models
- Introduction to OSI Model
- Introduction to TCP/IP Networking
- Fundamentals of Ethernet LANs
- Fundamentals of WANs and IP Routing

02 Implementing Ethernet LANs

- Data Encapsulation
- Using the Command-Line Interface
- Analyzing Ethernet LAN Switching
- Understanding CAT6 Cabling
- Understanding 568A and 568B Mechanism
- Configuring Basic Switch Management
- Configuring and Verifying Switch Interfaces

03 Managing a Cisco Network

- Internal Components of a Cisco Router
- Internal Components of a Cisco Switch
- Backing Up and Restoring Cisco Configuration
- Configuring DHCP
- Network Time Protocol NTP
- Understanding Telnet & SSH
- Understanding CDP & LLDP
- Understanding Name Resolution

04 IPv4 Addressing

- Perspectives on IPv4 Subnetting
- VLSM, Summarization
- Analyzing Classful IPv4 Networks
- Analyzing Subnet Masks
- Analyzing Existing Subnets

05 Understanding Switching Services

- Switching Services
- Switch Function
- Packet Flow in Switched Network
- G-ARP
- ARP Request & Reply
- Unknown Unicast Flooding
- Configuring Catalyst Switch

06 Implementing VLANs & DTP

- Implementing Ethernet Virtual LANs
- Understanding Internal VLAN
- Understanding Inter-Vlan Routing
- Implementing Inter-Vlan Routing



07 Implementing STP & Ether-channel

- Spanning Tree Protocol Concepts
- Understanding STP States
- Implementing Port-Fast
- Implementing BPDU-Guard
- Understanding RSTP
- Ether-Channel Configuration

08 Implementing MST

- Understanding MST technology
- Implementing MST Configuration

09 IPv4 Routing

- Operating Cisco Routers
- Configuring IPv4 Addresses and Static Route
- IP Routing in the LAN
- Dynamic Routing Mechanism
- Routing Information Protocol RIP
- Networking Loop

THIS COURSE IS DESIGNED FOR ANYONE SEEKING CCNA CERTIFICATION.



10 EIGRP

- Understanding EIGRP Concepts
- Understanding EIGRP Algorithm
- Understanding Messages
- EIGRP Metric Calculation
- EIGRP Topology Tables
- EIGRP equal and unequal cost load balancing

11 OSPF

- Understanding OSPF Concepts
- Implementing OSPF
- OSPF Network Types and Neighbors

12 IP Version 6

- Fundamentals of IP Version 6
- IPv6 Addressing and Subnetting
- Implementing IPv6 Addressing on Routers
- Implementing IPv6 Routing

13 IP Access Control Lists

- Introduction to TCP/IP Transport and Applications
- Basic IPv4 Access Control Lists
- Advanced IPv4 Access Control Lists
- Standard & Extending ACL
- Monitoring ACL

14 Security Services

- Securing Network Devices
- Implementing Switch Port Security
- Implementing DHCP
- DHCP Snooping and ARP Inspection

15 IP Services

- Device Management Protocols
- Network Address Translation
- Quality of Service (QoS)
- Miscellaneous IP Services

16 Redundancy Feature

- Introducing First Hop Redundancy Protocol (FHRP)
- Hot Standby Routing Protocol
- Virtual Router Redundancy Protocol
- Gateway Load Balancing Protocol

17 Network Architecture

- LAN Architecture
- WAN Architecture
- Cloud Architecture

18 Network Automation

- Introduction to Controller-Based Networking
- Cisco Software-Defined WA

19 Bonus Topics

- Syslog
- LCP
- PPP
- PPP Authentication
- PPPoE
- GRE Tunnel

