

APEX COMPUTER EDUCATION

An ISO 9001:2015 Certified Institute

CONT- 9830530920 / 9830326482

Log on-www.apexcomputeronline.com

CCNA Course Curriculum

■ Part I: Introduction to Networking

- Introduction to Cisco Certification
- Introduction to TCP/IP Networking
- Fundamentals of Ethernet LANs
- Fundamentals of WANs and IP Routing,

■ Part II: Implementing Ethernet LANs

- Using the Command-Line Interface
- Analyzing Ethernet LAN Switching
- Configuring Basic Switch Management
- Configuring and Verifying Switch Interfaces

■ Part III: Implementing VLANs and STP

- Implementing Ethernet Virtual LANs
- Spanning Tree Protocol Concepts
- RSTP and EtherChannel Configuration

■ Part IV: IPv4 Addressing

- Perspectives on IPv4 Addressing & Subnetting
- Analyzing Classful IPv4 Networks
- Analyzing Subnet Masks
- Analyzing Existing Subnets
- IP Subnet: FLSM and VLSM

■ Part V: IPv4 Routing

- Operating Cisco Routers
- Configuring IPv4 Addressing and Static Routes
- IP Routing in the LAN (InterVLAN Routing)
- Troubleshooting IPv4 Routing

■ Part VI: OSPF

- Understanding OSPF Concepts

- Implementing OSPF
- OSPF Network Types and Neighbours

■ **Part VII: IP Version 6**

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

■ **Part VIII: Wireless LANs**

- Fundamentals of Wireless Networks
- Analysing Cisco Wireless Architectures
- Securing Wireless Networks
- Building a Wireless LAN

■ **Part IX: IP Access Control Lists**

- Introduction to TCP/IP Transport and Applications
- Basic IPv4 Access Control Lists
- Advanced IPv4 Access Control Lists

■ **Part X: Security Services**

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

■ **Part XI: IP Services**

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

■ **Part XII: Network Architecture**

- LAN Architecture
- WAN Architecture
- Cloud Architecture

■ **Part XIII: Network Automation**

- Introduction to Controller-Based Networking
- Cisco Software-Defined Access (SDA)

- Understanding REST and JSON
- Understanding Ansible, Puppet, and Chef

APEX COMPUTER