

CCNA.CCNP Course Content:35-40hours

Course Outline
CCNA

CCNA 01

- Introduction to Networking
- Networking Fundamentals
- Networking Media
- Cable Testing
- Cabling Lans and Wans
- Ethernet Fundamentals
- Ethernet Technologies
- Ethernet Switching
- TCP/IP Protocol Suite and IP Addressing
- Routing Fundamentals and Subnets
- TCO/IP Transport and Application Layer

CCNA 02

- Wans and Routers
- Introduction to Routers
- Configuring a Kouter
- Learning about other Devices
- Managing Cisco IOS Software
- Routing and Routing Protocols
- Distance Vector Routing Protocols
- TCP/IP Suit Error and Control Messages
- Basic Router Troubleshooting
- Intermediate TCP/IP
- Acces Control Lists (ACLs)

CCNA 03

- Introduction to Classless Routing
- Single-Area OSPF
- EIGRP
- Switching Concepts
- Switches
- Switch Configuration
- Spanning Tree Protocol
- Virtual Lans
- Virtual Trunking Protocol

CCNA 04

- Scaling IP Addresses Wan Technologies PPP
- ISDN and DDR Frame Relay
- Introduction to Network Administration

CCNP - Advanced Routing

CCNP 01

- Overview of Scalable Internetworks
- Advanced IP Addressing Management
- Routing Overview
- Routing Information Protocol
- EIGRP
- OSPF
- IS-IS
- Route Optimization
- Routing Overview

CCNP 02

- Wans
- Modems and AS YNC Connections PPP
- ISDN and DDR Dialer Profiles Frame Relay
- Managing Frame Relay Traffic Wan Backup
- Managing and Optimizing Traffic Scaling IP Addressing with NAT Using AAA Scale Acces Control Broadband Connections
- Virtual Private Network

CCNP - Multilayer Switching

CCNP 03

- Designing a Network Using the Campus Infrastructure Module
- Defining VLANs
- Implementing Spanning Tree
- Spanning Tree Enhancements
- Implementing Multilayer Switching
- Implementing Redundancy in The Routing Layer
- Minimizing Service Loss and Data Theft in a Switched Network
- Configuring Campus **Switches tp Support Voice and Video Applications**

CCNP - Network Troubleshooting

CCNP 04

- **Documenting** and Baselining The Network Overview
- Troubleshooting Methodologies and Tools
- Troubleshooting at The Physical Layer
- Layer 2 Troubleshooting
- Layer 3 Troubleshooting
- Layer 4 Troubleshooting
- Layer 1-7 Troubleshooting