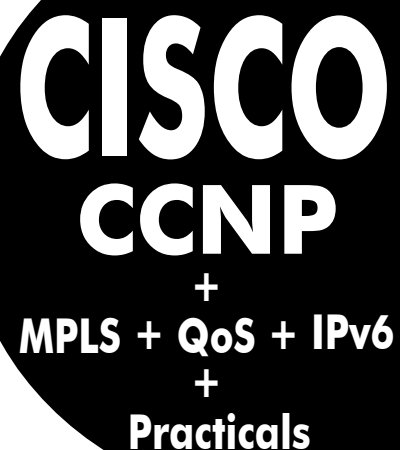


The new curriculum covers all the 4 modules of CCNP for Certification in detail. The course also covers the latest topics like Voice over Internet Protocol with CISCO IP Phones, Wireless LANs with CISCO Wireless Access Point, Multiprotocol Label Switching (MPLS), Quality of Service (QoS), IPsec Virtual Private Networks (VPNs), IPv6 concepts, IPv6 Routing, Broadband Technologies (xDSL, Cable etc.), Network Security with IOS based Firewall, IDS & IPS. As no WAN setup is complete without leased line/ISDN/VSAT etc., telecom devices like CSU/DSU, Telco MUX, and Channelized EI will also be covered in practical setup. CCNP training will be given by Senior Network/WAN engineers with several years of field experience.

Course Contents

- ☞ BSCI - (642-901)
(Building Scalable Cisco Internetworks)
 - ☞ BCMSN - (642-812)
(Building Cisco Multilayer Switched Networks)
 - ☞ ISCW - (642-825)
(Implementing Secure Converged Wide Area Networks)
 - ☞ ONT - (642-845)
(Optimizing Cisco Converged Networks)
- +
- ☞ Introduction to CCIE
 - ☞ Introduction to Network Security & Ethical Hacking
 - ☞ Overview on Satellite Broadcasting & Radio Networks



CISCO
CCNP
+
MPLS + QoS + IPv6
+
Practicals

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COURSE DETAILS

☛ **BSCI - (642-901)**

(Building Scalable Cisco Internetworks)

- ▶ Managing Scalable Internetwork growth
- ▶ IP Addressing, VLSM, CIDR and Route summarization
- ▶ IP Routing Principles
- ▶ Operations and functions of EIGRP
- ▶ Implementing EIGRP in enterprise networks
- ▶ Implementing OSPF in single area
- ▶ Interconnecting Multiple OSPF areas
- ▶ Implementing IS-IS routing protocol
- ▶ Controlling Routing updates
- ▶ Policy Based Routing (PBR)
- ▶ Redistribution between Routing protocols
- ▶ Basic concepts of BGP
- ▶ Advanced BGP Implementations and tuning
- ▶ Configuring IP Multicast routing
- ▶ Concepts of IP version 6
- ▶ Configuring OSPF routing with IPv6 addressing

☛ **ISCW - (642-825)**

(Implementing Secure Converged WAN)

- ▶ Concepts of Cable (HFC) technologies
- ▶ Overview on xDSL technologies
- ▶ Configuring ADSL (PPPoE, PPPoA)
- ▶ Concepts of Frame-Mode MPLS
- ▶ Configuring and verifying Frame-Mode MPLS
- ▶ Components of IPSec
- ▶ Operations of IPSec VPNs and GRE tunnels
- ▶ Configuring Site-to-Site IPSec VPN/GRE tunnels with SDM, Easy VPN
- ▶ Network Security concepts (Attacks, Trojans, Worms, Viruses...)
- ▶ Operations of Cisco IOS firewall
- ▶ Configuring and verifying Cisco IOS IPS/IDS (Intrusion Prevention System)
- ▶ Configuring and verifying AAA for Cisco routers
- ▶ Implementing IOS secure management features (SSH, SYSLOG, SNMP...)
- ▶ Cisco Hardening

☛ **BCMSN - (642-812)**

(Building Cisco Multilayer Switched Networks)

- ▶ Overview and Design of a Campus Networks
- ▶ Basic operations of Ethernet switches
- ▶ VLANs and Trunks
- ▶ VLAN Trunking protocol (VTP)
- ▶ Aggregating Switch Links
- ▶ Traditional Spanning Tree Protocol
- ▶ Advanced Spanning Tree Protocol
- ▶ Spanning Tree protocol configuration and tuning
- ▶ Multi-Layer Switching
- ▶ Router Redundancy and Load Balancing
- ▶ Monitoring Switched networks performance
- ▶ Concepts of WLANs
- ▶ Implementing and verifying WLANs operations
- ▶ IP Telephony (VoIP)
- ▶ Security implementations in Switched networks (802.1x, VACLs, DHCP Snooping...)

☛ **ONT - (642-845)**

(Optimizing Cisco Converged Networks)

- ▶ Basic Components and Operations of VoIP
- ▶ Implementations of VoIP
- ▶ Implementing Cisco Call Manager Express
- ▶ Implementations of Diffserv QoS
- ▶ Overview on Classification and Marking (CoS, ToS, IP Precedence...)
- ▶ Configuring NBAR for classification
- ▶ Traffic congestion management (FIFO, PQ, WRR...)
- ▶ Configuring QoS Pre-Classify using SDM
- ▶ Operations of Auto QoS
- ▶ Configuring and verifying Auto QoS implementations
- ▶ Configuring WLAN Security on Cisco Clients & Access Points (APs)
- ▶ Basic WLAN management