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Cisco Certified Network Professional

Course Description:

CCNP R&S certification is a Professional level certification for candidates trying to wind up plainly guaranteed Routing and Switching advances equipped. After the culmination of CCNP Training, the candidate will have the capacity to design, execute, check and investigate neighborhood and wide-range undertaking Cisco networks. The CCNP R&S Certification preparing bundle comprises of preparing on three differed modules i.e. Course, SWITCH, and TSHOOT explained below:

Routing:

This preparation module covers top to bottom investigation and reasonable preparing about IP Routing. You will get with ideas like arranging, building and testing \safe LAN and WAN arrangements utilizing changed sorts and number of directing conventions like EIGRP, OSPF, BGP, IPV6 and so forth.

Switching:

This preparation module incorporates profound hypothetical and down to earth learning on arranging, building and executing venture exchanging arrangements with the assistance of exchanging innovations like VLAN, STP, VTP, RSTP, MSTP, EtherChannel, GLBP, HSRP, VRRP and so on.

TSHOOT:

In this module, the hopeful figures out how to investigate and keep up IP networks. This incorporates the use of mechanical yet appropriate ways to deal with investigate different systems.

Modes of Trainings Available:

Online Training
Class Room Training
Regular Classes Available
Weekend Classes Available

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Course Outline

Preparation:

How to Prepare For Cisco CCNP Enterprise

Routing Fundamentals:

IPv4 Explained
IPv4 Header Fields
Introduction to ARP
DHCP Server
DHCP Relay
Introduction to TCP and UDP
ICMP Explained
How to Configure Static Route on Cisco IOS Router
Unicast Flooding Due To Asymmetric Routing

Redistribution:

Introduction to Redistribution
Redistribution between RIP and EIGRP
Redistribution between OSPF and RIP
Redistribution Route Tagging
Troubleshooting Metric Redistribution
Troubleshooting AD Redistribution

OSPF:

Introduction to OSPF
OSPF LSAs and LSDB Flooding
OSPF Plain Text Authentication
OSPF MD5 Authentication
OSPF LSA Types
OSPF Packets and Neighbor Discovery
OSPF Router ID
OSPF Passive Interface
OSPF DR/BDR Election
How to Configure OSPF Default Route

OSPF Hello and Dead Interval
OSPF Summarization
Introduction to OSPF Stub Areas
How to Configure OSPF Stub Area
How to Configure OSPF Totally Stub
How to Configure OSPF NSSA (Not So Stubby) Area
How to Configure OSPF Totally NSSA (Not So Stubby) Area
OSPF Virtual Link
OSPF LSA Type 3 Filtering
OSPF LSA Type 5 Filtering
OSPF Path Selection Explained
OSPF Distribute-List Filtering
OSPFv3 for IPv4

EIGRP:

Introduction to EIGRP
Basic EIGRP Configuration
EIGRP Packets EIGRP Neighbor Adjacency
EIGRP Static Neighbor
EIGRP Neighbor and Topology Table
EIGRP Unequal Load Balancing
How to Configure EIGRP Unequal Load Balancing
EIGRP K Values
EIGRP K Values Configuration
EIGRP Hold Time and Hello Packets
EIGRP Summarization
EIGRP Auto-Summary
EIGRP Authentication
EIGRP Default Network Route
EIGRP Stub
EIGRP Route-Map Filtering
EIGRP Router ID

Route Selection:

Administrative Distance
CEF (Cisco Express Forwarding)
PBR (Policy Based Routing)

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BGP (Border Gateway Protocol):

Introduction to BGP
How to Configure EBGP (External BGP)
EBGP Multihop
IBGP (Internal BGP) Explained
BGP Private and Public AS Numbers
How to Read the BGP Table
How to Advertise Networks in BGP
BGP Auto-Summary
IBGP Next Hop Self
BGP Neighbor Adjacency States
BGP Messages
BGP Weight Attribute
BGP Local Preference
BGP AS Path and Prepending
BGP Origin Code
BGP MED (Metric) Attribute
BGP Regular Expressions
BGP Filtering With Regular Expressions
BGP Soft Reconfiguration
BGP Route Refresh Capability

IPv6:

Introduction to IPv6
Shortening IPv6 Addresses
How to Find the IPv6 Prefix
IPv6 Address Types
IPv6 Address Assignment Example
How to Configure IPv6 Static Routing
How to Configure IPv6 RIPNG
How to Configure IPv6 EIGRP
How to Configure IPv6 OSPF
IPv6 Redistribution between RIPNG and OSPFv3
IPv6 Tunneling Over IPv4

Remote Site Connectivity and DHCP Client:

Introduction to NAT and PAT
How to Configure Static NAT
How to Configure Dynamic NAT
How to Configure PAT
GRE Tunneling

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Router Security and Management:

Introduction to CDP (Cisco Discovery Protocol)
Standard Access-List
Extended Access-List
SNMP
Syslog
NTP (Network Time Protocol)