



CCNP Enterprise Core 350-401

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Course Content	Outline
Understanding Cisco Switching Paths	<ul style="list-style-type: none"> Overview of Switching VLAN & Trunking with 802.1Q Inter-Vlan Routing(SVI)
Building Redundant Switched Topology	<ul style="list-style-type: none"> Overview of STP & STP Features(Portfast, BPDU Guard) Operations of RSTP Implementing MST
Implementing Layer 2 & Layer 3 Port Aggregation	<ul style="list-style-type: none"> EtherChannel L2 & L3 EtherChannel Mode Interactions Layer 2 & L3 EtherChannel Configuration EtherChannel Load-Balancing Options
Understanding & Implementing EIGRP	<ul style="list-style-type: none"> Overview of EIGRP EIGRP Features Establishing EIGRP Neighbor Adjacency EIGRP Metrics EIGRP Path Selection EIGRP Implementation
Understanding & Implementing OSPF	<ul style="list-style-type: none"> Describe OSPF The OSPF Process OSPF neighbor Adjacencies Compare and Configure Single-Area and Multi-Area OSPF OSPF DR & BDR
Exploring BGP	<ul style="list-style-type: none"> Overview of BGP Types of BGP neighbors EBGP & IBGP Configurations
Implementing Network Redundancy	<ul style="list-style-type: none"> Need for Default Gateway Redundancy Advanced Configuration of HSRP & VRRP
Introducing Virtualization Protocols and Techniques	<ul style="list-style-type: none"> Server Virtualization Introducing VRF Introducing Generic Routing Encapsulation(GRE Tunnel)



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Course Content	Outline
Understanding Virtual Private Networks and Interfaces	<ul style="list-style-type: none"> • Site-to-Site VPN Technologies • IPsec VPN Overview • IPsec: IKE • IPsec Modes
Understanding Wireless Principles	<ul style="list-style-type: none"> • Overview of Wireless Network • Describe IEEE Wireless Standards • Wireless Deployment Overview • Describe Autonomous AP Deployment • Describe Centralized Cisco WLC Deployment
Understanding Wireless Client Authentication	<ul style="list-style-type: none"> • Authentication Methods • Pre-Shared Key (PSK) Authentication • 802.1X User Authentication Overview • Introduction to Extensible Authentication Protocol • EAP-Transport Layer Security (EAP-TLS) • Protected Extensible Authentication Protocol
Introducing Multicast Protocols	<ul style="list-style-type: none"> • Multicast Overview • Internet Group Management Protocol(IGMP) • Protocol Independent Multicast(PIM)
Introducing QoS	<ul style="list-style-type: none"> • Describe QoS & its Mechanisms
Implementing Network Services	<ul style="list-style-type: none"> • Understanding Network Time Protocol • Simple Network Management Protocol • Introducing Net-Flow
Using Network Analysis Tools	<ul style="list-style-type: none"> • Overview of Switched Port Analyzer(SPAN) • Remote SPAN (RSPAN)
Describe Secure Access Control	<ul style="list-style-type: none"> • AAA Framework Overview • RADIUS and TACACS+
Understanding Enterprise Network Security Architecture	<ul style="list-style-type: none"> • TrustSec • 802.1X for Wired Endpoint Authentication • MAC Authentication Bypass(MAB)



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Course Content	Outline
Exploring Automation and Assurance Using Cisco DNA Centre	<ul style="list-style-type: none"> • Cisco Digital Network Architecture(DNA)
Examining the Cisco SD-Access Solution	<ul style="list-style-type: none"> • Cisco SD Access Overview
Understanding the Working Principles of the Cisco SD-WAN Solution	<ul style="list-style-type: none"> • Cisco SD-WAN Components and Functions • Cisco SD-WAN Orchestration Plane • Cisco SD-WAN Management Plane- vManage • Cisco SD-WAN Control Plane - vSmart • Cisco SD-WAN Data Plane - WAN Edge
Understanding the Basics of Python Programming	<ul style="list-style-type: none"> • Describe Python role in network