

Course SWITCH Implementing Cisco IP Switched Networks v2.0

Module 1: Basic Concepts and Network Design

- ✓ Analyzing Campus Network Structure
- ✓ Comparing Layer 2 and Multilayer Switches
- ✓ Using Cisco SDM Templates
- ✓ Implementing LLDP
- ✓ Implementing PoE

Module 2: Campus Network Architecture

- ✓ Implementing VLANs and Trunks
- ✓ Introducing VTP
- ✓ Implementing DHCP
- ✓ Implementing DHCP for IPv6
- ✓ Configuring Layer 2 Port Aggregation

Module 3: Spanning Tree Implementation

- ✓ Implementing RSTP
- ✓ Implementing STP Stability Mechanisms
- ✓ Implementing MST

Module 4: Inter-VLAN Routing

- ✓ Implementing Inter-VLAN Routing Using a Router
- ✓ Configuring a Switch to Route

Module 5: High-Availability Networks

- ✓ Configuring Network Time Protocol
- ✓ Implementing SNMP Version 3
- ✓ Implementing the Cisco IOS IP SLA
- ✓ Implementing Port Mirroring for Monitoring Support
- ✓ Verifying Switch Virtualization

Module 6: First Hop Redundancy Protocol Implementation

- ✓ Configuring Layer 3 Redundancy with HSRP
- ✓ Configuring Layer 3 Redundancy with VRRP
- ✓ Configuring Layer 3 Redundancy with GLBP
- ✓ Configuring First Hop Redundancy Protocol for IPv6

Module 7: Campus Network Security

- ✓ Implementing Port Security
- ✓ Implementing Storm Control
- ✓ Implementing Access to External Authentication
- ✓ Mitigating Spoofing Attacks
- ✓ Securing VLAN Trunks
- ✓ Configuring PVLANS

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Labs

- ✓ Investigating the CAM
- ✓ Configuring VLANs and Trunks
- ✓ VTP Operation
- ✓ Exploring DHCP
- ✓ Obtaining IPv6 Addresses Dynamically
- ✓ EtherChannel Configuration and Load Balancing
- ✓ Discovering and Modifying STP Behavior
- ✓ Root Guard
- ✓ Configuring MST
- ✓ Routing with an External Router
- ✓ Routing on a Multilayer Switch
- ✓ NTP Configuration
- ✓ IP SLA Echo Configuration
- ✓ Configuring and Tuning HSRP
- ✓ Configure VRRP and Spot the Differences from HSRP
- ✓ Configure GLBP
- ✓ Port Security

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