

5 Days

## Implementing Cisco IP Switched Networks

Upon completing this course, the learner will be able to meet these overall objectives:

- Describe the hierarchical campus structure, basic switch operation, use of SDM templates, PoE, and LLDP
- Implement VLANs, trunks, explain VTP, implement DHCP in IPv4 and IPv6 environment, and configure port aggregation
- Implement and optimize STP mechanism that best suits your network - PVSTP+, RPVSTP+, or MSTP
- Configure routing on a multilayer switch
- Configure NTP, SNMP, IP SLA, port mirroring, and verify StackWise and VSS operation
- Implement First Hop redundancy in IPv4 and IPv6 environments
- Secure campus network according to recommended practices

## Course Details

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### Course Outline

- Module 1: Basic Concepts and Network Design
- Module 2: Campus Network Architecture
- Module 3: Spanning Tree Implementation
- Module 4: Configuring Inter-VLAN Routing
- Module 5: Implementing High Availability Networks
- Module 6: First Hop Redundancy Implementation
- Module 7: Campus Network Security

### Who Should Attend

- Channel Partner / Reseller
- Customer
- Employee

### Pre Requisite

The knowledge and skills that a learner must have before attending this Curriculum are as follows:

- Describing network fundamentals
- Establishing Internet and WAN connectivity (IPv4 and IPv6)
- Managing network device security
- Operating a medium-sized LAN with multiple switches, supporting VLANs, trunking, and spanning tree
- Troubleshooting IP connectivity (IPv4 and IPv6)
- Configuring and troubleshooting EIGRP and OSPF (IPv4 and IPv6)
- Configuring devices for SNMP, Syslog, and NetFlow access
- Managing Cisco device configurations, Cisco IOS images, and licenses

It is highly recommended that this course be taken after the following Cisco courses:

- Interconnecting Cisco Networking Devices v2.0, Part 1 (ICND1 v2.0) and Part 2 (ICND2 v2.0)
- Interconnecting Cisco Networking Devices: Accelerated version 2.0 (CCNAX v2.0)

## Exams

Implementing Cisco IP Switched Networks [300-115 SWITCH]

464, Udyog Vihar Phase  
V, Gurgaon (Delhi  
NCR)-122016, India

+91 8882 233 777

[training@mercury.co.in](mailto:training@mercury.co.in)

[www.mercurysolutions.co](http://www.mercurysolutions.co)

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