



Troubleshooting and Maintaining Cisco IP Networks

Code: TSHOOT-v2-0-SUB

URL: [View Online](#)

In this course, you will learn and practice techniques to monitor and troubleshoot routed and switched networks through extensive hands-on lab exercises. Troubleshooting methods, approaches, procedures, and tools are explored. A series of different organizations are introduced for each a set of troubleshooting scenarios that are presented. You will attempt to solve as many of the troubleshooting tickets as you can; the debrief includes review information that will help you further understand the specific issues raised in the scenarios.

Skills Gained

- Troubleshooting methods, approaches, and procedures
- Recommended network maintenance practices
- Using basic and specialized troubleshooting tools
- Troubleshooting:
 - A redundant Internet gateway or redundant ISP fails to provide backup connectivity
 - OSPF, EIGRP and BGP issues, including redistribution
 - HSRP, VRRP, and GLBP issues
 - EtherChannel issues
 - Other issues including NTP, DNS, default routes, IP SLAs, AAA, and GRE
 - When headquarters or branch clients are unable to access internal devices or the Internet
 - When you are unable to connect to a network device using SSH or Telnet
 - When devices are unable to acquire a DHCP-provided address

Who Can Benefit

- Network engineers and technicians
- Support engineers
- Systems engineers
- Network analysts
- Senior network administrators
- Anyone involved in implementing, verifying, and troubleshooting routed and switched enterprise networks

Prerequisites

- Taking ROUTE v2.0 and SWITCH v2.0 is highly recommended
- Knowledge of and experience with the implementation and verification of enterprise routing and switching technologies that includes:
 - Layer 2 switching including VLANs, VLAN ACLs, and switch security
 - Link aggregation protocols
 - Various types of STP
 - Inter-VLAN routing solutions
 - First Hop Redundancy Protocols: HSRP, VRRP, and GLBP
 - Branch office operations
 - EIGRP and OSPF routing protocols
 - Layer 3 path control
 - Redistribution
 - Internal and External BGP
 - IPv4 and IPv6 networking

Course Details

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