

# Cisco Certified Network Professional

## Troubleshooting & Maintaining Cisco IP Networks

1. Maintain and monitor network performance
2. Develop a plan to monitor and manage a network
3. Perform network monitoring using IOS tools
4. Perform routine IOS device maintenance
5. Isolate sub-optimal internetwork operation at the correctly defined OSI Model layer
6. Troubleshoot Multi Protocol system networks
7. Troubleshoot EIGRP
8. Troubleshoot OSPF
9. Troubleshoot eBGP
10. Troubleshoot routing redistribution solution
11. Troubleshoot a DHCP client and server solution
12. Troubleshoot NAT
13. Troubleshoot first hop redundancy protocols
14. Troubleshoot IPv6 routing
15. Troubleshoot IPv6 and IPv4 interoperability
16. Troubleshoot switch-to-switch connectivity for the VLAN based solution
17. Troubleshoot loop prevention for the VLAN based solution
18. Troubleshoot Access Ports for the VLAN based solution
19. Troubleshoot private VLANs
20. Troubleshoot port security
21. Troubleshoot general switch security
22. Troubleshoot VACLs and PACLs
23. Troubleshoot switch virtual interfaces (SVIs)
24. Troubleshoot switch supervisor redundancy
25. Troubleshoot switch support of advanced services (i.e., Wireless, VOIP and Video)
26. Troubleshoot a VoIP support solution
27. Troubleshoot a video support solution
28. Troubleshoot Layer 3 Security
29. Troubleshoot issues related to ACLs used to secure access to Cisco routers
30. Troubleshoot configuration issues related to accessing the AAA server for authentication purposes

31. Troubleshoot security issues related to IOS services (i.e., finger, NTP, HTTP, FTP, RCP etc.)

