

Troubleshooting and Maintaining Cisco IP Networks (TSHOOT)



Experts in Networking

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The TSHOOT course is designed to teach professionals that work in complex network environments the necessary skills to maintain their networks and to diagnose and resolve network problems quickly and effectively.

This course is designed to hone the skills and knowledge of network professionals in maintaining their network and to diagnose and resolve network problems quickly and effectively

In addition to the formal pre-requisites it is recommended that delegates also have practical experience in installing, operating and maintaining Cisco routers and switches in an enterprise environment.

Pre-requisites

- ICND1
- ICND2
- SWITCH
- ROUTE

Course	Course Objectives
<p>Troubleshooting and Maintaining Cisco IP Networks (TSHOOT)</p> <p>This course forms part of the following Cisco certifications</p> <p>CCNP (<i>Cisco Certified Network Professional</i>)</p> <p><u>Certification</u> Required topics are covered for the Cisco exam:</p> <p>642-832 TSHOOT</p> <p><u>Duration</u> 4 days</p>	<p>Upon completion of this course, the delegate will be able to:</p> <ul style="list-style-type: none">• Plan and document the most commonly performed maintenance functions in complex enterprise networks• Develop a troubleshooting process to identify and resolve problems in complex enterprise networks• Select tools that best support specific troubleshooting and maintenance processes in large, complex enterprise networks• Practice maintenance procedures and fault resolution in switching based environments• Practice maintenance procedures and fault resolution in routing based environments• Practice maintenance procedures and fault resolution in a secure infrastructure• Practice maintenance procedures and fault resolution problems in a complex environment

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Course Content

Planning Maintenance for Complex Networks

- Applying Maintenance Methodologies
- Common Maintenance Processes and Procedures
- Network Maintenance Tools, Applications, and Resources

Planning Troubleshooting Processes for Complex Enterprise Networks

- Applying Troubleshooting Methodologies
- Planning and Implementing Troubleshooting Procedures
- Integrating Troubleshooting into the Network Maintenance Process

Maintenance and Troubleshooting Tools and Applications

- Assembling a Basic Diagnostic Toolkit Using Cisco IOS Software
- Using Specialized Maintenance and Troubleshooting Tools

Maintaining and Troubleshooting Campus Switching-Based Solutions

- Troubleshooting VLANs
- Troubleshooting Spanning Tree
- Troubleshooting Switched Virtual Interfaces and Inter VLAN Routing
- Troubleshooting FHRPs
- Troubleshooting Performance Problems on Switches

Maintaining and Troubleshooting Routing-Based Solutions

- Troubleshooting Network Layer Connectivity
- Troubleshooting EIGRP
- Troubleshooting OSPF
- Troubleshooting Route Redistribution
- Troubleshooting BGP
- Troubleshooting Performance Problems on Routers
- References to Additional Troubleshooting on NAT and DHCP in E-Learning

Maintaining and Troubleshooting Network Security Solutions

- Troubleshooting Security Features
- Impact of security features on network troubleshooting
- Security Features Review
- Diagnose and resolve transport layer problems in a structured manner
- Verify the operation of Cisco IOS Firewall stateful packet inspection
- Diagnose and resolve problems related to using AAA on routers and switches
- References to Additional Security Troubleshooting in E-Learning
- Troubleshooting Network Applications Services e-learning module
- Troubleshooting Branch Office and Remote Worker Problems e-learning module
- Process of accessing and using e-learning content

Maintaining and Troubleshooting Integrated, Complex Enterprise Networks

- Troubleshooting Complex Environments