

## Course Outline

# Troubleshooting and Maintaining Cisco IP Networking (TSHOOT) 2.0

**Duration:** 5 days (30 hours)

### Course Content:

TSHOOT v2.0 includes major updates and follows an updated blueprint. However, note that this course does not cover all items listed on the blueprint. Some older topics have been removed or simplified, while several new IPv6 routing topics have been added. Course content has been adapted to Cisco IOS Software Release 15 and technically updated. Course also introduces new type of labs, called discovery labs. Discovery labs are instructor guided lab through which student explores new topics in an interactive way. All labs are developed only as virtual labs. To get the full course experience, you should cover everything, including Introduction, Discovery labs, Summary, and Module Self-Check.

### Learning Objectives:

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

- Describe the troubleshooting tools and methodologies that are used to identify and resolve issues in complex enterprise networks
- Isolate and fix the network issues that your company, SECHNIK Networking Ltd., is facing
- Isolate and fix the network issues that your customer, TINC Garbage Disposal Ltd., is facing
- Isolate and fix the network issues that your customer, PILE Forensic Accounting Ltd., is facing
- Isolate and fix the network issues that your customer, Bank of POLONA Ltd., is facing
- Isolate and fix the network issues that your customer, RADULKO Transport Ltd., is facing

### Prerequisites

Prior to attending this course students should have the knowledge of and experience with the implementation and verification of enterprise routing and switching technologies as offered by the Implementing Cisco Switched Networks (SWITCH) v2.0 and Implementing Cisco IP Routing (ROUTE) v2.0 courses or equivalent skills and knowledge. This includes knowledge and experience of the following technologies:

- Layer 2 switching
  - VLANs, VLAN access control lists, port security
  - Switch security issues
- Link aggregation protocols
- Spanning Tree Protocol (STP)
- Inter-VLAN routing solutions
- First Hop Redundancy Protocols (FHRPs) - HSRP, VRRP, and GLBP
- Branch office operations
- Enhanced Interior Gateway Routing Protocol (EIGRP)
- Open Shortest Path First (OSPF)
- Layer 3 path control
- Redistribution

### Target Audience

- Channel Partner / Reseller
- Customer
- Employee

**Topics Covered:**

- Module 1: Tools and Methodologies of Troubleshooting
- Module 2: Troubleshooting at SECHNIK Networking Ltd
- Module 3: Troubleshooting at TINC Garbage Disposal Ltd.
- Module 4: Troubleshooting at PILE Forensic Accounting Ltd
- Module 5: Troubleshooting at Bank of POLONA Ltd
- Module 6: Troubleshooting at RADULKO Transport Ltd