

Troubleshooting Cisco Internetworks for Network Associates

v1.1

CCNA-TS



Delivery Type: Classroom

Duration: 3 days

Overview

This intensive extended 3-day course is focused on general routing and switching challenges at the Cisco Certified Network Associate (CCNA) level of expertise. Delegates will identify a process for developing a network benchmark for routers, switches, and end systems, as well as gain a working understanding of proven troubleshooting methodologies based on Cisco best practices, industry-proven processes, and the instructor's practical experiences. Numerous practical troubleshooting lab exercises reinforce the lecture material with the time dedicated to labs and lectures evenly split. Each student pair will have access to seven Cisco devices (routers and switches) in order to complete the lab scenarios.

Mini Camp Hours

Delegates should expect to start classes early and finish late and may extend to 8:00 PM or later.

Pre-Requisites

Attendees should meet the following prerequisites:

- ✓ ICND1 - Interconnecting Cisco Network Devices 1
- ✓ ICND2 - Interconnecting Cisco Network Devices 2

Target Audience

This course is designed for those individuals who require the skills to troubleshoot a medium-to-large Ethernet-TCP/IP network using Cisco routers and switches, and is ideally suited for 1st line support engineers who do not wish to progress to CCNP level but who still want to improve and enhance the skills they learnt while studying for their CCNA.

Certification

Recommended preparation for exam(s):

This course is not part of a Cisco Certification track but instead builds on the skills acquired in ICND1 and ICND2 focusing on troubleshooting techniques...

Objectives

- **After you complete this course you will be able to:**
 - ✓ Establish a benchmark
 - ✓ Document benchmarks for routers, switches, and end systems
 - ✓ Utilise Troubleshooting methodology based on a layered model

- ✓ Implement proven troubleshooting methodology
- ✓ Gather symptoms for physical and data link problems
- ✓ Segment the issues for easier problem solving.
- ✓ Troubleshoot Ethernet switching
- ✓ Troubleshoot the WAN
- ✓ Follow guidelines for isolating and correcting physical and data link problems
- ✓ Resolve problems at the network layer
- ✓ Utilise general routing protocol troubleshooting
- ✓ Troubleshoot OSPF and EIGRP
- ✓ Isolate and correct network layer problems
- ✓ Isolate and correct upper layer problems
- ✓ Troubleshoot Access Control Lists
- ✓ Troubleshoot NAT/PAT
- ✓ Troubleshoot DHCP and SSH

Follow on Courses

The following courses are recommended for further study:

- ✓ ROUTE - Implementing Cisco IP Routing v1.0
- ✓ SWITCH - Implementing Cisco IP Switched Networks v1.0
- ✓ TSHOOT - Troubleshooting and Maintaining Cisco IP Networks v1.0