

Cisco 360 Learning Program for CCIE RS Lesson Troubleshooting

The centerpiece of this Lesson Module is the Troubleshooting video on demand (VoD) instruction. The split-screen format of each VoD module provides the powerful learning experience of shadowing a Cisco CCIE who is configuring and explaining a Troubleshooting process. Duration Seven Hours Each VoD is approximately 1530 minutes in length, and the approximately seven hours of VoD modules are grouped into three blocks. A set of supporting 'Spot the Issues' soft assessment quizzes are included in each block. In addition, two hands-on, technology-focused practice labs on the subject of the Troubleshooting are available in this Lesson Module. Target Audience The Troubleshooting lesson is for professional-level networking engineers who have 35 years of network engineering experience or who have completed the Cisco CCNP certification. This self-paced Lesson Module is for engineers who need to master CCIE-level problems that involve:

- * Formulating a structured and consistent troubleshooting process
- * Troubleshooting Link-Layer Technologies
- * Troubleshooting IPv4 Routing Protocols
- * Troubleshooting IP Services: IPv6, Multicast, Router QoS and NAT

Recommended Prerequisites and Corequisites A CCNP level of understanding of network troubleshooting are required. It is also recommended that this lesson be completed with these lessons

- * CCIE R&S Lesson: Data Link Layer Technologies
- * CCIE R&S Lesson: Frame Relay
- * CCIE R&S Lesson: BGP Routing Protocols

Lesson Module Objectives Upon completion of this self-paced Lesson Module, learners should be able to formulate well-defined mental simulations to perform the following Troubleshooting tasks with the minimally described parameters that are commonly found in CCIE-level tasks.

- * Formulate an end-to-end opening moves strategy for troubleshooting tasks
- * Formulate a troubleshooting strategy for link-layer technologies
- * Formulate a troubleshooting strategy for routing protocols
- * Formulate a troubleshooting strategy for IP Services that include IPv6, Multicast, Router QoS and NAT

Lesson Module Outline The VoDs in this Lesson Module discuss these topics:

- * Block 1: Troubleshooting Tools and Techniques Introduction to Troubleshooting
- * Troubleshooting Tools IOS SHOW Commands
- * Troubleshooting Tools ? PING
- * Troubleshooting Tools ? Traceroute
- * Troubleshooting Tools Debug IP Packet Part I
- * Troubleshooting Tools Debug IP Packet Part II
- * Troubleshooting Frame-Relay Part I
- * Troubleshooting Frame-Relay Part II
- * Troubleshooting Frame-Relay Part III
- * Troubleshooting Switched Interfaces Fundamentals
- * Troubleshooting Switched Interfaces Strategy Part I
- * Troubleshooting Switched Interfaces Strategy Part II
- * Block 2: Troubleshooting Routing Protocols Troubleshooting RIP
- * Troubleshooting EIGRP Adjacencies
- * Troubleshooting EIGRP Routing
- * Troubleshooting OSPF Adjacencies
- * Troubleshooting OSPF Routing Part I
- * Troubleshooting OSPF Routing Part II
- * Troubleshooting Redistribution
- * Troubleshooting BGP Neighbor Relationships Part I
- * Troubleshooting BGP Neighbor Relationships Part II
- * Troubleshooting BGP Routing Part I
- * Troubleshooting BGP Routing Part II
- * Troubleshooting BGP Filtering Part I
- * Troubleshooting BGP Filtering Part II
- * Troubleshooting BGP Filtering Part III
- * Block 3: Troubleshooting IP Services Troubleshooting IPv6 Part I
- * Troubleshooting IPv6 Part II
- * Troubleshooting IP Multicast
- * Troubleshooting Router QoS Part I
- * Troubleshooting Router QoS Part II
- * Troubleshooting NAT

Lab Outline This Lesson Module contains two hands-on labs that focus on the Troubleshooting topics in the VoDs. Learners must supply the lab equipment that is required to run the labs. Each of these hands-on, technology-focused scenarios consists of:

- * A scenario written with CCIE-level troubleshooting tasks
- * A detailed Answer Key
- * The web-based and highly interactive Mentor Guide

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