Cisco Troubleshooting and Maintaining (CCNP TSHOOT), Part 1 of 5: Complex Enterprise Networks

Meet the expert: Robert has more than 20 years of expertise in the fields of >sophisticated networking, information, and telecommunication technologies. He has

worked as an Information Technology Consultant and Instructor, consulting and

training in the networking realm of the IT Industry throughout Europe and USA since

2005. Clients include the United States Military, Mercedes Benz, Deutsche Telekom,

and Diversion German Government Entities.

Prerequisites: This is part 1 of the series.

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Course description: This course helps prepare for the CCNP TSHOOT exam. it's recommended to take CCNP ROUTE and CCNP SWITCH courses to have an understanding before this course. It will discuss planning maintenance and troubleshooting processes for complex enterprise networks.

Course outline:

Planning Maintenance for Complex Networks
- Introduction
- A Network Engineer's Job
- Benefits of Structured Maintenance
- Maintenance Models and Methodologies
- Configuration Management
- Network Maintenance Plan
- Network Maintenance Planning
- Tools, Applications, and Resources
- NTP Example
- Cisco Configuration and Documentation Tools
- Logging Services
- Logging to a Server
- Monitoring and Performance Measurement Tools
- Implementing Backup and Restore
- Disaster Recovery Tools
- Summary

Planning Maintenance for Complex Networks Demo
- Introduction
- Demo: Create Network Topology
- Demo: Interconnect Network Devices
- Demo: Interconnect Network Devices Continued
- Summary

Troubleshooting Processes for Complex Networks
- Introduction
- Troubleshooting Methodologies
- Troubleshooting Methodologies Continued
- Troubleshooting Approaches
- Troubleshooting Examples
- Implementing Troubleshooting Procedures
- Verify and Define the Problem
- Gather Information, Analyze, and Eliminate
- Propose and Test Hypothesis and Solve Problem
- Troubleshooting and Network Maintenance
- Network Baseline
- Communication and Change Control
- Disaster Recovery Tools
- Demo: Configure Router 1
- Demo: Router 1 Passwords
- Demo: IP Host Tables
- Demo: Set up Interfaces
- Demo: Interfaces Continued
- Demo: SNMP Servers
- Summary

Troubleshooting Processes for Complex Network Demo
- Introduction
- Demo: Baseline Switch Configuration
- Demo: Switch Setup
- Demo: Spanning Tree
- Demo: Set up Port Channels and Interfaces
- Demo: Interfaces Continued
- Demo: One More Interface
- Demo: Set up IP Address and Default Gateway
- Summary