

CompTIA Network+ Certification



Course Outline

1. Network Fundamentals

- Network Elements
- Physical Topologies
- Physical Media
- Common Network Connectivity Devices

2. The OSI Model

- Introducing the OSI Model
- The OSI Model's Lower Layers
- The OSI Model's Middle Layers
- The OSI Model's Upper Layers
- Networking Protocols

3. TCP/IP Fundamentals

- Introducing to TCP/IP
- The Transmission Control Protocol
- The Internet Layers Protocols
- The Application Protocols
- Other Upper-Layer Protocols
- Overview of Port and Sockets
- Understanding IP Addressing
- Name Resolution Methods
- Configuring TCP/IP on Windows Workstations
- Virtual LANs (VLANs)

Practice Questions: 1~180

4. TCP/IP Utilities

- arp
- netstat
- nbtstat
- ftp
- ping
- ipconfig

- tracert
- telnet
- nslookup

5. Network Operating Systems (NOS)

- Microsoft Windows
- Novell NetWare
- UNIX / Linux
- MacOS

6. Wired and Wireless Networks

- Before Installing New Hardware or Software
- Wireless Networking
- Workstation Configuration
- Network Installation Tools

7. WAN and Remote Access Technologies

- Remote Access Connection
- Configuration Requirements
- Remote Access Connection Methods
- Remote Access Protocols

Practice Questions: 181~360

8. Network Access and Security

- Accessing Network Resources
- Managing User Account and Password Security
- Using Firewalls
- Understanding and Defending against Hacker Attacks
- DoD Security Standards
- Understanding Encryption
- Security Policies



9. Fault Tolerance and Disaster Recovery

- Accessing Fault Tolerance and Disaster Recovery Needs
- Power Management
- Disk System Fault Tolerance
- Backup Considerations
- Virus Protection
- Software Revisions

10. Network Troubleshooting

- Narrowing Down the Problem
- Troubleshooting Steps
- The Troubleshooter's Resources
- Troubleshooting Tips

Practice Questions: 361~548

- General Review - Assorted Practice Questions
- Testing