

CompTIA Network+ Syllabus

Lesson 1: Comparing OSI Model Network Functions **2 Hours - 2 Topics**

- **Topic 1A: Compare and Contrast OSI Model Layers (Day 1)**
- **Topic 1B: Configure SOHO Networks (Day 1)**

Lesson 2: Deploying Ethernet Cabling **2 Hours - 4 Topics**

- **Topic 2A: Summarize Ethernet Standards (Day 2)**
- **Topic 2B: Summarize Copper Cabling Types (Day 2)**
- **Topic 2C: Summarize Fiber Optic Cabling Types (Day 2)**
- **Topic 2D: Deploy Ethernet Cabling (Day 2)**

Lesson 3: Deploying Ethernet Switching **2 Hours - 3 Topics**

- **Topic 3A: Deploy Networking Devices (Day 3)**
- **Topic 3B: Explain Network Interfaces (Day 3)**
- **Topic 3C: Deploy Common Ethernet Switching Features (Day 3)**

Lesson 4: Troubleshooting Ethernet Networks **2 Hours - 2 Topics**

- **Topic 4A: Explain Network Troubleshooting Methodology (Day 4)**
- **Topic 4B: Troubleshoot Common Cable Connectivity Issues (Day 4)**

Lesson 5: Explaining IPv4 Addressing **2 Hours - 3 Topics**

- **Topic 5A: Explain IPv4 Addressing Schemes (Day 5)**
- **Topic 5B: Explain IPv4 Forwarding (Day 5)**
- **Topic 5C: Configure IP Networks and Subnets (Day 5)**

Lesson 6: Supporting IPv4 and IPv6 Networks **2 Hours - 3 Topics**

- **Topic 6A: Use Appropriate Tools to Test IP Configuration (Day 6)**
- **Topic 6B: Troubleshoot IP Networks (Day 6)**
- **Topic 6C: Explain IPv6 Addressing Schemes (Day 6)**

Lesson 7: Configuring and Troubleshooting Routers **2 Hours - 3 Topics**

- **Topic 7A: Compare and Contrast Routing Concepts (Day 7)**
- **Topic 7B: Compare and Contrast Dynamic Routing Concepts (Day 7)**
- **Topic 7C: Install and Troubleshoot Routers (Day 7)**

Lesson 8: Explaining Network Topologies and Types **2 Hours - 3 Topics**

- **Topic 8A: Explain Network Types and Characteristics (Day 8)**
- **Topic 8B: Explain Tiered Switching Architecture (Day 8)**
- **Topic 8C: Explain Virtual LANs (Day 8)**

Lesson 9: Explaining Transport Layer Protocols **2 Hours - 2 Topics**

- **Topic 9A: Compare and Contrast Transport Protocols (Day 9)**
- **Topic 9B: Use Appropriate Tools to Scan Network Ports (Day 9)**

Lesson 10: Explaining Network Services **2 Hours - 3 Topics**

- **Topic 10A: Explain the Use of Network Addressing Services (Day 10)**
- **Topic 10B: Explain the Use of Name Resolution Services (Day 10)**
- **Topic 10C: Configure DNS Services (Day 10)**

Lesson 11: Explaining Network Applications **2 Hours - 2 Topics**

- **Topic 11A: Explain the Use of Web, File/Print, and Database Services (Day 11)**
- **Topic 11B: Explain the Use of Email and Voice Services (Day 11)**

Lesson 12: Ensuring Network Availability **2 Hours - 3 Topics**

- **Topic 12A: Explain the Use of Network Management Services (Day 12)**
- **Topic 12B: Use Event Management to Ensure Network Availability (Day 12)**
- **Topic 12C: Use Performance Metrics to Ensure Network Availability (Day 12)**

Lesson 13: Explaining Common Security Concepts **2 Hours - 2 Topics**

- **Topic 13A: Explain Common Security Concepts (Day 13)**
- **Topic 13B: Explain Authentication Methods (Day 13)**

Lesson 14: Supporting and Troubleshooting Secure Networks **2 Hours - 2 Topics**

- **Topic 14A: Compare and Contrast Security Appliances (Day 14)**
- **Topic 14B: Troubleshoot Service and Security Issues (Day 14)**

Lesson 15: Deploying and Troubleshooting Wireless Networks **2 Hours - 4 Topics**

- **Topic 15A: Summarize Wireless Standards (Day 15)**
- **Topic 15B: Install Wireless Networks (Day 15)**
- **Topic 15C: Troubleshoot Wireless Networks (Day 15)**
- **Topic 15D: Configure and Troubleshoot Wireless Security (Day 15)**

Lesson 16: Comparing WAN Links and Remote Access Methods **2 Hours - 2 Topics**

- **Topic 16A: Explain WAN Provider Links (Day 16)**
- **Topic 16B: Compare and Contrast Remote Access Methods (Day 16)**

Lesson 17: Explaining Organizational and Physical Security Concepts**2 Hours - 3 Topics**

- **Topic 17A: Explain Organizational Documentation and Policies (Day 17)**
- **Topic 17B: Explain Physical Security Methods (Day 17)**
- **Topic 17C: Compare and Contrast Internet of Things Devices (Day 17)**

Lesson 18: Explaining Disaster Recovery and High Availability Concepts**2 Hours - 2 Topics**

- **Topic 18A: Explain Disaster Recovery Concepts (Day 18)**
- **Topic 18B: Explain High Availability Concepts (Day 18)**

Lesson 19: Applying Network Hardening Techniques **2 Hours - 2 Topics**

- **Topic 19A: Compare and Contrast Types of Attacks (Day 19)**
- **Topic 19B: Apply Network Hardening Techniques (Day 19)**

Lesson 20: Summarizing Cloud and Datacenter Architecture **2 Hours - 3 Topics**

- **Topic 20A: Summarize Cloud Concepts (Day 20)**
- **Topic 20B: Explain Virtualization and Storage Area Network Technologies (Day 20)**
- **Topic 20C: Explain Datacenter Network Architecture (Day 20)**