

Transition Guide for gtslearning-based *CompTIA® Network+® Certification (Exam N10-007) Study Guide to The Official CompTIA® Network+® Guides (Exam N10-007): 2019 Update*

This bridge document is written for instructors who have used the previous *CompTIA Network+ Certification (Exam N10-007) Study Guide* courseware from gtslearning, and who are looking to come up to speed on the new version quickly and efficiently.

High-Level Overview of Course Design Changes

This edition of the course has been redesigned compared to the order in which lessons and topics were presented in the GTS study guide.

Where GTS contents uses high level modules mapped to training days, subdivided into units, OCC content is mapped to lessons and topics that are aligned with job functions and tasks. The topics are shorter than the equivalent units in the GTS study guide, providing more opportunities to pause, review, and check understanding of the content. The content sequence is broadly similar, with early lessons focusing on Ethernet, IP, routing, and TCP/UDP/applications. The middle part of the course covers monitoring, troubleshooting, and security topics. The course concludes with more detailed topics on physical layer issues, such as cabling, wireless, site, and Internet/remote access. The course concludes with risk management, software development, and security policy uses.

There are no changes to the exam and exam objectives.

Course Outline Comparison

This table compares the outline of the prior **CompTIA Network+ Certification (Exam N10-007) Study Guide** courseware to that of the new **The Official CompTIA Network+ Guides (Exam N10-007): 2019 Update** courseware.

The Official CompTIA Network+ Guides (Exam N10-007): 2019 Update	CompTIA® Network+® Certification (Exam N10-007) Study Guide
01A Explain OSI Model Layers	1.1 Topologies and the OSI Model
01B Explain the TCP/IP Suite	1.4 Infrastructure and Design
02A Explain Media Types and Access Methods	1.2 Ethernet
02B Deploy Ethernet Standards	1.2 Ethernet
02C Configure and Monitor Network Interfaces	1.2 Ethernet

The Official CompTIA Network+ Guides (Exam N10-007): 2019 Update	CompTIA® Network+® Certification (Exam N10-007) Study Guide
03A Install and Configure Hubs and Bridges	1.3 Hubs, Bridges, and Switches
03B Install and Configure Switches	1.3 Hubs, Bridges, and Switches
03C Compare and Contrast Network Topologies	1.1 Topologies and the OSI Model
03D Compare and Contrast Network Types	1.4 Infrastructure and Design
04A Configure IPv4 Addressing Components	2.1 Internet Protocol
04B Test IP Interfaces with Command Line Tools	2.1 Internet Protocol
04C Configure IPv4 Addressing Components	2.2 IPv4 Addressing
04D Configure Private and Public IPv4 Addressing Schemes	2.2 IPv4 Addressing
04E Configure IPv6 Addressing Components	2.3 IPv6 Addressing
04F Configure DHCP Services	2.4 DHCP and APIPA
05A Explain Characteristics of Routing	3.1 Routing
05B Install and Configure Routers	3.1 Routing
06A Explain the Uses of Ports and Protocols	3.2 TCP and UDP
06B Use Port Scanners and Protocol Analyzers	3.2 TCP and UDP
06C Explain the Use of Name Resolution Services	3.3 Name Resolution and IPAM
06D Configure DNS and IPAM Services	3.3 Name Resolution and IPAM
07A Explain the Uses of Network Application Services	4.1 Applications and Services
07B Explain the Uses of Voice Services and Advanced Networking Devices	4.1 Applications and Services
07C Explain the Uses of Virtualization and Network Storage Services	4.2 Virtualization, SAN, and Cloud Services
07D Summarize the Concepts of Cloud Services	4.2 Virtualization, SAN, and Cloud Services
08A Monitor Network Interfaces and Logs	3.4 Monitoring and Scanning
08B Explain Network Troubleshooting Methodology	3.5 Network Troubleshooting
08C Troubleshoot Common Network Services Issues	3.5 Network Troubleshooting
09A Summarize Common Networking Attacks	4.3 Network Security Design
09B Explain the Characteristics of VLANs	4.3 Network Security Design

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09C Explain the Characteristics of NAT and Port Forwarding	4.3 Network Security Design
10A Install and Configure Firewalls and Proxies	4.4 Network Security Appliances
10B Explain the Uses of IDS/IPS and UTM	4.4 Network Security Appliances
11A Explain Authentication Controls and Attacks	4.5 Authentication and Endpoint Security
11B Explain the Uses of Authentication Protocols and Directory Services	4.5 Authentication and Endpoint Security
11C Explain the Uses of Port Security and NAC	4.5 Authentication and Endpoint Security
11D Implement Network Device Hardening	4.3 Network Security Design
11E Explain Patch Management and Vulnerability Scanning Processes	3.4 Monitoring and Scanning
12A Deploy Structured Cabling Systems	5.1 Network Site Management
12B Deploy Twisted-pair Cabling Solutions	5.2 Installing Cabled Networks
12C Test and Troubleshoot Twisted-pair Cabling Solutions	5.2 Installing Cabled Networks
12D Deploy Fiber Optic Cabling Solutions	5.2 Installing Cabled Networks
13A Install and Configure Wireless Technologies	5.3 Installing Wireless Networks
13B Troubleshoot Wireless Performance Issues	5.3 Installing Wireless Networks
13C Secure and Troubleshoot Wireless Connectivity	5.3 Installing Wireless Networks
14A Compare and Contrast WAN Core Service Types	5.4 Installing WAN Links
14B Compare and Contrast WAN Subscriber Service Types	5.4 Installing WAN Links
14C Compare and Contrast WAN Framing Service Types	5.5 Configuring Remote Access
14D Compare and Contrast Wireless and IoT WAN Technologies	5.4 Installing WAN Links
15A Use Remote Access VPNs	5.5 Configuring Remote Access
15B Use Remote Access Management Methods	5.5 Configuring Remote Access
16A Manage a Network with Documentation and Diagrams	5.1 Network Site Management
16B Summarize the Purposes of Physical Security Devices	5.1 Network Site Management

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16C Compare and Contrast Business Continuity and Disaster Recovery Concepts	5.1 Network Site Management
16D Identify Policies and Best Practices	1.5 Policies and Best Practices

Course Setup Changes

The OCC course continues the VM-based approach to practical labs. The guest VMs continue to include a Windows Server 2016 domain controller, a Windows Server 2016 web and email server, Ubuntu and CentOS servers, Windows 7 and Windows 10 clients, VyOS routers, pfSense and Security Onion security appliances, and the KALI Linux security testing platform. The lab activities are broadly similar to those in the GTS version of the course, but the environment has been tweaked to streamline and improve some lab tasks, so a new lab setup will have to be performed.

Virtual machine images for all Linux-based guests are provided, as well as the scripts required to implement installations of Windows machines. As always, training providers are responsible for meeting licensing requirements for any software used in the classroom.

A complete and detailed setup guide document is available for download from the CompTIA CHOICE platform.

Note: The labs share the same platform as *The Official CompTIA Security+ Guides (Exam SY0-501): 2019 Update* course. Also, if you have already set up *The Official CompTIA A+ Guides (Exam 220-1102): 2019 Update* course, you can update the setup using provided script files to make the required changes for this course.

Other Course Changes

In addition to the course set-up and activity changes, we've also added some additional features to help support your students in their learning.

In the Assessments tile in CompTIA CHOICE, you will find a variety of different assessments that students can take related to the lesson content as well as course-wide final assessment. These assessments can be used for self-study by students or as homework in your course.

In the Video tile in CompTIA CHOICE, you will find access to different videos that can be incorporated into the course. These videos, developed exclusively for CompTIA by ITPro.TV, provide demonstrations of key activities in the course. These are a good alternative to show if you do not have access to all equipment mentioned in the course. Video icons in the course content also alert you and your students to videos that relate to the content covered.

In Closing

This course is still designed for learners who have experience as IT professionals with experience in TCP/IP networking and Windows administration, and who want to gain additional knowledge of networking topics or use this course as the foundation for advanced networking certifications and career roles. To obtain CompTIA Network+ certification, learners will need to pass the N10-007 exam.

Enjoy the course!