



COMPTIA Network+

CompTIA Network+ is the first certification IT professionals specializing in network administration and support should earn. Network+ is aimed at IT professionals with job roles such as network administrator, network installer. The CompTIA® Network+® (Exam N10-07) course builds on the existing user-level knowledge and experience with personal computer operating systems and networks to present the fundamental skills and concepts that a network administrator will need to use on the job in any type of networking career. For someone pursuing a CompTIA technical certification path, the CompTIA® A+® certification is an excellent first step to take before preparing for the CompTIA Network+ certification. The CompTIA® Network+® (Exam N10-007) course can benefit participants in two ways. It can assist then if they are preparing to take the CompTIA Network+ examination. Also, if their job duties include network troubleshooting, installation, or maintenance, or if they are preparing for any type of network-related career, it provides the background knowledge and skills they require to be successful.



CODE: ED22A36



DURATION: 35 hours



START DATE: 24/05/2022



AUDIENCE PROFILE:

Network+ is aimed at IT professionals with job roles such as network administrator, network technician, network installer



PREREQUISITES FOR PARTICIPATION:

Good Knowledge of computers and Internet



TRAINING LANGUAGE:

Greek or English



TRAINING MATERIALS:

Step by Step training materials in the English Language



METHODOLOGY:

Lecture, discussion, demonstration and practice.



COURSE OBJECTIVES:

Upon completion of this course the participants will :

- Identify basic network theory concepts and major network communications methods.
- Describe bounded network media.
- Identify unbounded network media.
- Identify the major types of network implementations.
- Identify TCP/IP addressing and data delivery methods.
- Identify the major services deployed on TCP/IP networks.
- Identify the infrastructure of a WAN implementation.
- Identify the components used in cloud compu-

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ting and virtualization.

- Describe basic concepts related to network security.
- Identify the components of a remote network implementation.
- Identify the tools, methods, and techniques used in managing a network.
- Describe troubleshooting of issues on a network.
- Implement routing technologies.
- Prevent security breaches.
- Respond to security incidents
- Adopt best practices for administering networks in LAN and WAN topologies

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 **VENUE: WEBINAR/EDITC & MMC Conference Center,**
16 Imvrou Street, 1055 Nicosia

 **DATES & TIMES:**

Tuesday, 24/5/22 8.15-16.00
Saturday, 28/5/22 8.15-13.30
Tuesday, 31/5/22 8.15-16.00
Saturday, 4/6/22 8.15-13.30
Tuesday, 7/6/22 8.15-16.00
Saturday, 11/6/22 8.15-12.30

 **PARICIPATION COST:**

The cost includes the course notes and certificate. In the event of classroom led training, coffee, snacks and lunch (only for full day courses) are offered complimentary.

Participation Cost

- Total Cost: €950
- HRDA Subsidy: €595
- Net Cost: €355

For Unemployed

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COURSE TOPICS

Module 1

Local Area Networks

Topologies and the OSI Model • Key Features of Networks • Network Topologies • The OSI Model • Physical Layer • Data Link Layer • Network Layer • Transport Layer • Upper Layers • OSI Model Summary • Labs • VM Orientation
Ethernet • Transmission Media • Media Access Control • Broadcast Domains • Ethernet Frames • Ethernet Deployment Standards • MAC Addressing • Address Resolution Protocol (ARP) • Packet Sniffers • Labs • Configuring Ethernet Networking
Hubs, Bridges, and Switches • Hubs and Bridges • Switches • Switch Interface Configuration • Spanning Tree Protocol (STP) • Power over Ethernet (PoE)
Infrastructure and Design • Network Infrastructure Implementations • Planning an Enterprise Campus Network • Network Hierarchy and Distributed Switching • Software Defined Networking • Planning a SOHO Network • TCP/IP Protocol Suite
Policies and Best Practices • Procedures and Standards • Safety Procedures • Incident Response Policies • Security and Data Policies • Password Policy • Employee Policies

Module 2

IP Addressing

Internet Protocol • IPv4 • IPv4 Address Structure • Subnet Masks • IP Routing Basics • ipconfig / ifconfig • ICMP and ping • Labs • Configuring IPv4 Networking
IPv4 Addressing • IPv4 Addressing Schemes • Classful Addressing • Public versus Private Addressing • Subnetting and Classless Addressing • Planning an IPv4 Addressing Scheme • Public Internet Addressing • Variable Length Subnet Masks (VLSM) • Labs • Configuring IPv4 Subnets

IPv6 Addressing • IPv6 Address Format • IPv6 Addressing Schemes • IPv6 Address Autoconfiguration • Migrating to IPv6 • Labs • Configuring IPv6 Networking
DHCP and APIPA • IPv4 Address Autoconfiguration • Configuring DHCP • DHCPv6 • Labs • Configuring Address Autoconfiguration

Module 3

Internetworking

Routing • Routing Basics • Routing Algorithms and Metrics • Dynamic Routing Protocols • Administrative Distance and Route Redistribution • IPv4 and IPv6 Internet Routing • High Availability Routing • Installing and Configuring Routers • Routing Troubleshooting Tools • Labs • Configuring Routing
TCP and UDP • Transmission Control Protocol (TCP) • User Datagram Protocol (UDP) • TCP and UDP Ports • Port Scanners • Protocol Analyzers • Labs • TCP and Port Scanning
Name Resolution and IPAM • Host Names and FQDNs • Domain Name System • Configuring DNS Servers • Resource Records • Name Resolution Tools • IP Address Management (IPAM) • Labs • Configuring Name Resolution and IPAM
Monitoring and Scanning • Performance Monitoring • Network Monitoring Utilities • Logs and Event Management • Simple Network Management Protocol • Analyzing Performance Metrics • Patch Management • Vulnerability Scanning • Labs • Performance Testing and Monitoring
Network Troubleshooting • Troubleshooting Procedures • Identifying the Problem • Establishing a Probable Cause • Establishing a Plan of Action • Troubleshooting Hardware Failure Issues • Troubleshooting Addressing Issues • Troubleshooting DHCP Issues • Troubleshooting Name Resolution • Troubleshooting Services

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COURSE TOPICS

Module 4

Applications and Security

Applications and Services • TCP/IP Services • HTTP and Web Servers • SSL / TLS and HTTPS • Email (SMTP / POP / IMAP) • Voice Services (VoIP and VTC) • Real-time Services Protocols • Quality of Service • Traffic Shaping • Bottlenecks and Load Balancing • Multilayer Switches • Labs • Configuring Application Protocols Virtualization, SAN, and Cloud Services • Virtualization Technologies • Network Storage Types • Fibre Channel and InfiniBand • iSCSI • Cloud Computing • Configuring Cloud Connectivity

Network Security Design • Security Basics • Common Networking Attacks • Network Segmentation and DMZ • Virtual LANs (VLAN) • VLAN Trunks • Network Address Translation (NAT) • Device and Service Hardening • Honeypots and Penetration Tests

Network Security Appliances • Basic Firewalls • Stateful Firewalls • Deploying a Firewall • Configuring a Firewall • Deploying a Proxy • Intrusion Detection Systems (IDS) • Denial of Service • Labs • Configuring a NAT Firewall

Authentication and Endpoint Security • Authentication and Access Controls • Social Engineering • Authentication Technologies • PKI and Digital Certificates • Local Authentication • RADIUS and TACACS+ • Directory Services • Endpoint Security • Network Access Control • Labs • Secure Appliance Administration

Module 5

Operations and Infrastructure

Network Site Management • Network Cabling Solu-

tions • Distribution Frames • Change and Configuration Management • Network Documentation and Diagrams • Labeling • Physical Security Devices • Business Continuity and Disaster Recovery • Network Link Management • Power Management • Backup Management • Labs • Network Inventory Management

Installing Cabled Networks • Twisted Pair Cable (UTP / STP / ScTP) • Twisted Pair Connectors • Wiring Tools and Techniques • Cable Testing Tools • Troubleshooting Wired Connectivity • Other Copper Cable Types • Fiber Optic Cable and Connectors • Transceivers and Media Converters

Installing Wireless Networks • Wireless Standards (IEEE 802.11) • Wireless Network Topologies • Wireless Site Design • Troubleshooting Wireless Connectivity • Wireless Security • Wi-Fi Authentication • Extensible Authentication Protocol • Troubleshooting Wireless Security • Wireless Controllers

Installing WAN Links • Wide Area Networks (WAN) • Telecommunications Networks • Modern Telecommunications Networks • Local Loop Services • Installing WAN Links • Wireless WAN Services • Internet of Things Configuring Remote Access • Remote Access Services (RAS) • MPLS and PPP • SIP Trunks • Virtual Private Networks (VPN) • SSL / TLS / DTLS VPNs • IPsec • Internet Key Exchange / ISAKMP • Remote Access Servers • Remote Administration Tools • Managing Network Appliances • Remote File Access • Labs • Configuring Secure Access Channels • Configuring a Virtual Private Network

Registration Form

(To digitally sign, this form must be opened in Adobe Acrobat or Reader)

Seminar Code:
Title:
Start Date:

* Required

A. Organization's Details (if applicable)

* Company/Organization:		* Size:	
Economic Activity:		* Telephone:	
Address:		Postal Code:	
* Authorised person for the registration:		* Email:	
		* Direct Telephone:	
* Number of participants:			

B. Participant's Details (1)

* Title:	* Name:		* Surname:	
Title/ Job Position:			* Email:	
Job description:			* Mobile:	
Reasons for participating in the seminar:				
If lunch is included in the seminar, please state below any dietary preferences:				

B. Participant's Details (2)

* Title:	* Name:		* Surname:	
Title/ Job Position:			* Email:	
Job description:			* Mobile:	
Reasons for participating in the seminar:				
If lunch is included in the seminar, please state below any dietary preferences:				

B. Participant's Details (3)

* Title:	* Name:		* Surname:	
Title/ Job Position:			* Email:	
Job description:			* Mobile:	
Reasons for participating in the seminar:				
If lunch is included in the seminar, please state below any dietary preferences:				

B. Participant's Details (4)

* Title:	* Name:		* Surname:	
Title/ Job Position:			* Email:	
Job description:			* Mobile:	
Reasons for participating in the seminar:				
If lunch is included in the seminar, please state below any dietary preferences:				

B. Participant's Details (5)

* Title:	* Name:		* Surname:	
Title/ Job Position:			* Email:	
Job description:			* Mobile:	
Reasons for participating in the seminar:				
If lunch is included in the seminar, please state below any dietary preferences:				

Registration Form

C. Participation Cost

PARTICIPATION IN THE SEMINAR IS PREPAID (at least three days before the start of the seminar)

Please invoice: The participant The company Not applicable

Please select:

Participants are entitled the Human Resource Development Authority (HRDA) subsidy € 355

Participants are **not** entitled the Human Resource Development Authority (HRDA) subsidy € 950

Participants are unemployed and registered at Public Employment Service Please contact us at 77777252

Cheques must be issued to **EDITC Ltd** and payment can be made directly through deposit to the account of the company

Account Name: EDITC LTD

Account Number: 115-01-068696-01

IBAN: CY19 0050 0115 0001 1501 0686 9601

SWIFT/BIC: HEBACY2N

D. Terms and conditions for participation in EDITC seminars

1. EDITC will inform the client upon receipt of the application form. Written confirmation for the implementation of the training program will be sent within 3-5 days before the start date of the seminar. In exceptional cases written confirmation may be sent one day before the start of the program. **Participants are encouraged to contact the company in case they did not receive the confirmation.**
2. Cancellations should be done in writing at least 5 working days prior to the start date of the seminar. Cancellations that do not meet the above term are invoiced the entire cost of the seminar.
3. The company has the right to cancel or postpone a training program up to one day before the start date of the program.
4. All registrations are strictly prepaid except for credit customers.
5. Participants with less than 75% attendance cannot be subsidized by the HRDA and in such a case the participants (or their company) will have to pay the amount of the HRDA subsidy.
6. In case of subsidized programs by the HRDA all the required forms of HRDA must be sent to EDITC before the start of the training program.
7. Digital Certificates of participation are issued to participants after the completion of the course provided that their financial obligations and obligations regarding HRDA forms are settled.

*** We agree with the above terms and conditions**

* Signature:

*(To digitally sign,
this form must be
opened in Adobe
Acrobat or Reader)*

* Date:

Stamp (in case of company):