

N10-009: CompTIA Network+

Design, configure and troubleshoot real networks, and prepare for the CompTIA Network+ N10-009 exam.

DURATION

5 days · 40 hours

LEVEL

Beginner

CURRICULUM

15 modules · 8 labs

DELIVERY

Live online, Onsite,
Corporate

Course overview

Every application, cloud service and security control depends on a network that works. Network+ is the vendor-neutral standard for the people who build and support those networks, and it is a common requirement for network administrator, NOC and infrastructure support roles. This five-day course prepares you for the N10-009 exam while building skills you can use on the job straight away.

Day one covers networking concepts: the OSI model, ports and protocols, network topologies, cloud networking and IPv4 and IPv6 addressing, with plenty of subnetting practice. Day two moves to implementation, including switching, VLANs, routing, wireless and physical installation. Day three covers network operations: documentation, monitoring, high availability, disaster recovery and network services such as DHCP, DNS and NTP. Day four focuses on network security, from access control and hardening to common attacks and their mitigations. Day five is about troubleshooting cabling, connectivity and performance problems, followed by exam preparation.

Labs run in a simulated network environment. You will configure VLANs and inter-VLAN routing, set up wireless security, read packet captures, build monitoring alerts and fix a series of broken networks using a structured troubleshooting method. These exercises also prepare you for the exam's performance-based questions.

This course is aligned to the CompTIA Network+ N10-009 exam. Confirm the current objectives and voucher price on the CompTIA website before booking.

Highlights

- 40 hours of live, trainer-led sessions
- Covers all five N10-009 domains
- Hands-on labs with switches, routers and packet capture
- Subnetting practice until it becomes routine
- Troubleshooting scenarios and mock exam

What's included

- Trainer with hands-on network administration experience
- Plan aligned to the five N10-009 domains
- Simulated network labs with switches, routers and firewalls
- Packet capture analysis with Wireshark
- Dedicated subnetting drills
- Troubleshooting scenarios and performance-based question practice
- Mock exam with review
- Course completion certificate from Ace Skills Consulting

Who this course is for

Who should attend

- Junior network administrators and NOC engineers
- IT support technicians moving into networking
- System administrators who manage network services
- CompTIA A+ holders progressing to the next level
- Graduates targeting infrastructure roles

Prerequisites

- Basic IT knowledge, ideally at CompTIA A+ level
- Some exposure to configuring PCs or home networks is helpful

Detailed curriculum — 5 days, 40 hours, 15 modules, 8 hands-on labs

Day 1 Networking Concepts

8 hours

1.1 Models and protocols

- OSI and TCP/IP models
- Traffic types and transmission methods
- Common ports and protocols

1.2 Topologies and architectures

- Network topologies
- Cloud networking concepts
- Three-tier and spine-leaf designs
- Software-defined networking basics

1.3 IP addressing

- IPv4 addressing and subnetting
- IPv6 fundamentals
- Public and private ranges

LAB Subnetting drills and an addressing plan for a branch office · 60 min

Day 2 Network Implementation

8 hours

2.1 Switching

- Ethernet basics
- Spanning Tree concepts
- VLANs and trunking
- Link aggregation

LAB Configure VLANs and trunks · 45 min

2.2 Routing

- Static routing
- NAT and PAT
- Dynamic routing protocol concepts
- First-hop redundancy

LAB Configure inter-VLAN and static routing · 45 min

2.3 Wireless and physical

- Wireless standards and channels
- Cabling, connectors and installation
- Wireless security

LAB Set up a secure wireless network · 30 min

Day 3 Network Operations

8 hours

3.1 Documentation and life cycle

- Network diagrams and asset inventory
- Change management
- Life-cycle management

3.2 Monitoring

- SNMP, syslog and flow data
- Alerting
- Performance metrics

LAB Build monitoring and alerting for key devices · 40 min

3.3 Services and resilience

- DHCP, DNS and NTP
- Backup and disaster recovery
- High availability concepts
- Remote access methods

Day 4 Network Security

8 hours

4.1 Security concepts

- CIA triad and defence in depth
- Zero trust basics
- Authentication and AAA

4.2 Attacks and mitigations

- Common network attacks
- Social engineering
- Wireless attacks

4.3 Hardening

- Device hardening
- Network segmentation
- Firewalls and ACLs
- Port security and NAC

LAB Apply ACLs and segmentation to a flat network · 45 min

Day 5 Troubleshooting and Exam Readiness

8 hours

5.1 Troubleshooting method

- Structured troubleshooting steps
- Connectivity and service issues
- Cabling and physical issues
- Performance problems

5.2 Tools

- ping, traceroute, nslookup and ipconfig
- Cable testers and Wi-Fi analysers
- Protocol analysers

LAB Fix five broken networks using a structured method · 60 min

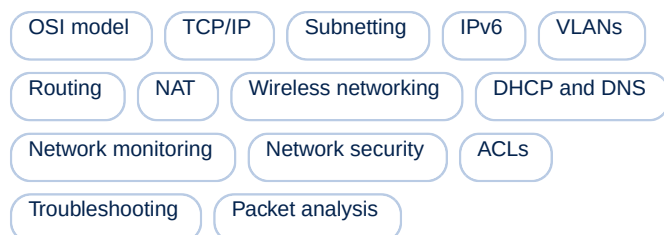
LAB Analyse a packet capture to find a fault · 30 min

5.3 Exam readiness

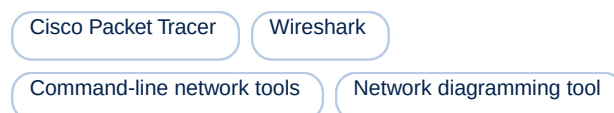
- Performance-based question practice
- Mock exam and review

Skills and tools

Skills you will build



Tools used in class



Certification exam

This course is aligned to the exam below and prepares you for it. The exam itself is booked and taken with the vendor.

Exam	CompTIA Network+
Exam code	N10-009
Questions	Up to 90
Duration	90 minutes
Passing score	720 / 900
Format	Multiple choice, Performance-based / lab
Delivery	Online proctored, Test centre
Validity	3 years (renewable through CompTIA continuing education)
Official page	https://www.comptia.org/certifications/network

Exam skill areas covered

Network+ Skills Framework

Exam details are pending verification. Confirm the current exam code, format and fee on the official vendor page before booking.

Frequently asked questions

Do I need A+ before Network+?

No. CompTIA recommends A+-level knowledge, but the certification itself is not required.

Will I work on real equipment?

Labs use network simulation software, which lets every learner configure complete networks without hardware.

Is Network+ the same as CCNA?

No. Network+ is vendor-neutral and broader, while CCNA goes deeper into Cisco configuration. Many learners take Network+ first.

Is the exam voucher included?

Only when the batch shows the "Exam voucher included" badge. Otherwise you buy the voucher directly from CompTIA.

Do you offer weekend batches?

Yes. Weekend batches cover the same 40 hours across consecutive weekends.

Book a batch or talk to an advisor

Course page: aceskillsconsulting.com/course/n10-009-comptia-network-plus · Email: info@aceskillsconsulting.com

Chennai office

Guindy, Chennai, Tamil Nadu

Delhi office

B-95, Old Post Office Street, Shakarpur

New Delhi 110092

Office: 98180 12523

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