

CompTIA Network+

Course outline · issued 14 September 2026

Technology areas	Network Administration
Level	Intermediate
Short course	5 days
One-month track	4 weeks · 16 training days · 96 contact hours
Two-month track	8 weeks · 32 training days · 192 contact hours
Delivery	In person, Hybrid
Class size	8 to 16 participants
Certification	CompTIA Network+ exam preparation
Entry requirements	Basic ICT support experience. Hands-on lab access required.

Who it is for

ICT staff who install, operate and troubleshoot agency and regional office networks.

REVENUE USE CASE

Connecting regional tax offices to central assessment systems reliably and securely.

By the end, participants can

- Design and document addressing, routing and switching for a multi-site office network
- Secure and segment a network, including wireless and remote access
- Troubleshoot connectivity and performance with a repeatable method

Short course modules (5 days)

1. Networking concepts and models
2. Infrastructure, cabling and wireless
3. Network operations and monitoring
4. Network security and hardening
5. Troubleshooting lab and exam preparation

One-month track — weeks 1 to 4

4 weeks · 16 training days · 96 contact hours

Week 1 — Networking concepts and models

- OSI and TCP/IP models used as diagnostic tools
- Protocols, ports and services worth memorising
- IPv4 subnetting and IPv6 addressing
- Network topologies and types

Practical: Design and document an addressing scheme for a regional office.

Week 2 — Infrastructure, cabling and wireless

- Cabling, connectors and transceivers
- Switches, routers and appliance placement
- Wireless standards, channels and coverage design
- Racks, power and physical installation

Practical: Survey and design wireless coverage for a floor plan.

Week 3 — Network operations

- Documentation, diagrams and baselines
- Monitoring, SNMP and syslog
- Availability, redundancy and failover
- Backup, continuity and disaster recovery

Practical: Stand up monitoring and produce a network baseline.

Week 4 — Network security

- Common attacks and their network signatures
- Access control, 802.1X and NAC
- Firewalls, VPNs and remote access
- Hardening devices and physical security

Practical: Secure the lab network and verify the controls hold.

Checkpoint: the one-month track is assessed [here](#).

Two-month track — continues through weeks 5 to 8

8 weeks · 32 training days · 192 contact hours

Week 5 — Routing and switching in depth

- VLANs, trunking and spanning tree
- Static and dynamic routing configuration
- NAT, DHCP relay and DNS infrastructure
- Quality of service and traffic shaping

Practical: Build a routed, segmented two-site network in the lab.

Week 6 — Troubleshooting methodology

- The structured troubleshooting process
- Command-line and hardware tools
- Packet capture and reading a trace
- Cable, wireless and performance faults

Practical: Clear a queue of injected faults against the clock.

Week 7 — Cloud, virtualisation and WAN

- Cloud connectivity and hybrid networks
- Virtual switching and network functions
- WAN technologies between offices
- Service provider management

Practical: Extend the lab build to a simulated cloud and WAN link.

Week 8 — Examination preparation and capstone

- Full syllabus review and gap analysis
- Performance-based question technique
- Full mock examination under timed conditions
- Design handover and exam booking

Practical: Hand over the capstone design and sit a full mock Network+ paper.

Capstone assessment and post-course evaluation.

Capstone

A documented multi-site network design and lab build for a regional tax office, plus a full mock Network+ paper under examination conditions.

About this outline

Indicative extended tracks. The one-month track runs weeks 1 to 4; the two-month track continues through week 8 with deeper labs, certification preparation and a capstone. Weeks, contact hours and cohort sizes are finalised with each client.

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