

Level 4



Network Engineer

Programme Guide





Why Velocity Academy?

Technology is at the heart of the modern workplace — it touches every aspect of our working lives.

Digital transformation becomes possible when employees are equipped with the right skills to thrive in a modern organisation. At Velocity Academy, we build digital capabilities across your workforce.

We partner with leading FTSE 250 companies, local councils, public sector departments, and fast-growing private enterprises to upskill existing teams and recruit the next generation of talent.

Our high-calibre teaching and coaching faculty deliver the expertise you need to lead your organisation's digital transformation. We use state-of-the-art technologies to create an impactful and engaging learning experience.

From data literacy and advanced marketing techniques to IT cloud infrastructure, cybersecurity, leadership, and accounting — we offer apprenticeship programmes designed to close your organisation's skills gaps.

Our Snapshot

100% Apprenticeship Pass Rates

4.9 Rated 'Excellent' on Trustpilot from 330+ reviews

92% Employee retention rate once they have completed their apprenticeship



Experience of working with FTSE 250 companies and public sector organisations



Awarded a Good grade as an apprenticeship provider by Ofsted



Rated 'Excellent' on the Apprenticeship Service

Programme Overview



Apprenticeship Standard: Network Engineer



Maximum Funding Amount: £19,000



Programme Duration: 15 Months + EPA



Tutor Led Classes: 33 Classes

Skills Gained

Network Architecture

Topologies

Client/Server Architecture

Active Directory

Cloud Architecture

Subnetting

Network Services

Routing and Switching

Network Automation

Classes



Online live classes to attend during this apprenticeship. Hosted through our highly rated teaching environment by Ofsted.

Coaching



1-1 coaching calls scheduled every 4 weeks with your dedicated skills coach. Employers are requested to attend at least 1 call every 9 weeks.

LinkedIn Learning



Free access to LinkedIn Learning for over 13,000 on-demand, online courses during your apprenticeship training.

BUD LMS Platform



Your progress will be continually assessed using our online programme management system, Bud. Here, you will upload work and log your OTJ hours.

Personal Development



Access to our highly rated Personal Development Learning Path to develop the apprentices soft skills during their apprenticeship training.

Portfolio Submissions



This apprenticeship is formatively assessed through portfolio submissions throughout the practical training period.

Learner Journey

During the apprenticeship journey there will be a blend of online instructor-led live classes covering the below modules. The apprentice will also have access to on-demand learning content and have portfolio-based activities to complete and submit.

Learners will be assigned a dedicated skills coach who will arrange support calls every month for personalised coaching and support on a 1-1 basis.

Practical Learning Period – 15 Months

Module 1: Intro & Networking Basics

Module 2: Addressing and Routing

Module 3: Cyber Security and Risk Management

Module 4: Network Performance

Module 5: Network Troubleshooting

End Point Assessment (EPA) – 3 Months

Professional Discussion

Simulated Assessment



Skills England NE4 Qualification Award



Modules

1

Module 1: Intro & Networking Basics

This module builds core infrastructure knowledge across on-prem and cloud. Learners explore network architectures and topologies, client/server models, virtualisation and Active Directory, and cloud architectures. It deepens understanding of the OSI model, TCP/IP, ports and protocols, and embeds organisational procedures, SLAs, contracts, and relevant legislation for compliant, reliable operations.

Topics Covered:

- Network Architecture and Topologies
- Client/Server Architecture
- Virtualisation and Active Directory
- Cloud Architecture
- OSI Model and TCP/IP
- Ports and Protocols
- Organisational Procedures
- SLAs and Contracts
- Legislation

Live Classes: 10 Sessions



Modules

2

Module 2: Addressing and Routing

This module develops hands-on networking capability. Learners master IPv4 addressing and subnetting, progress to IPv6, and configure routing and switching. It covers wireless technologies and secure configurations, core cloud networking concepts, and essential network services. Learners capture configurations, diagrams, and reflections to build a professional portfolio showcasing applied skills.

Topics Covered:

- IPv4 and Subnetting
- IPv6 Addressing
- Routing and Switching
- Wireless Technologies and Configurations
- Cloud Concepts
- Network Services
- Portfolio Building

Live Classes: 7 Sessions



Modules

3

Module 3: Cyber Security and Risk Management

This module builds a robust grounding in cyber security. Learners examine network threats and the modern threat landscape, apply risk management, and embed security assurance practices. It covers business continuity and disaster recovery planning, with practical strategies to mitigate threats and protect an organisation's people, data, and systems end-to-end.

Topics Covered:

- Introduction to Cyber Security
- Network Threats
- Business Continuity
- Disaster Recovery
- Risk Management
- Modern Threat Landscape
- Security Assurance
- Mitigating Security Threats
- Protecting an Organisation

Live Classes: 6 Sessions



Modules

4

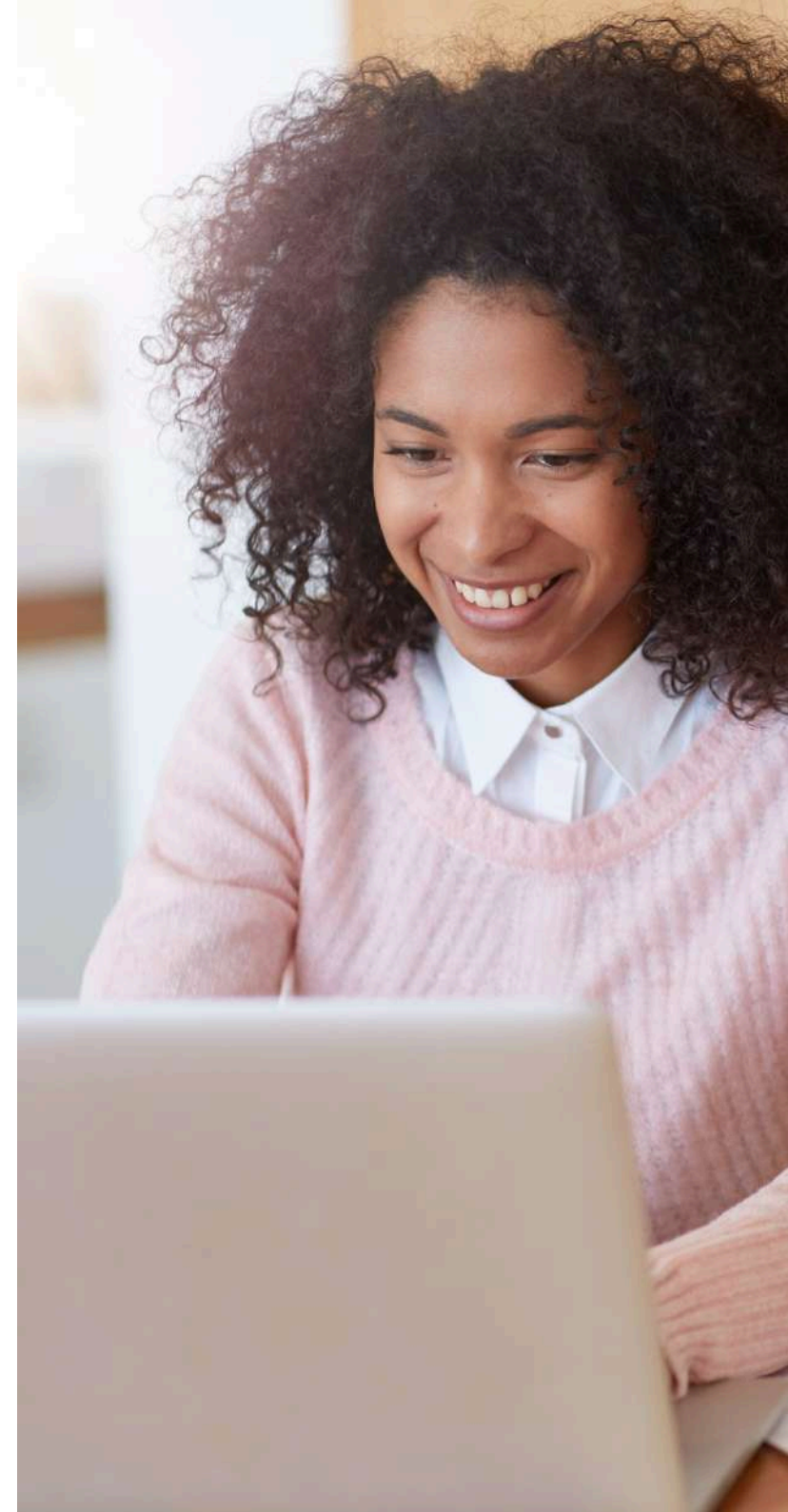
Module 4: Network Performance

This module builds capability to tune systems for reliability and speed, using performance diagnostics to identify bottlenecks and plan proactive network maintenance. Learners integrate servers into existing environments and apply network automation and software-defined networking to streamline operations. It embeds structured change management to deliver safe, auditable improvements at scale.

Topics Covered:

- System Optimisation
- Performance Diagnostics
- Network Maintenance
- Integrating a Server
- Network Automation
- Software Defined Networking
- Change Management

Live Classes: 7 Sessions



Modules

5

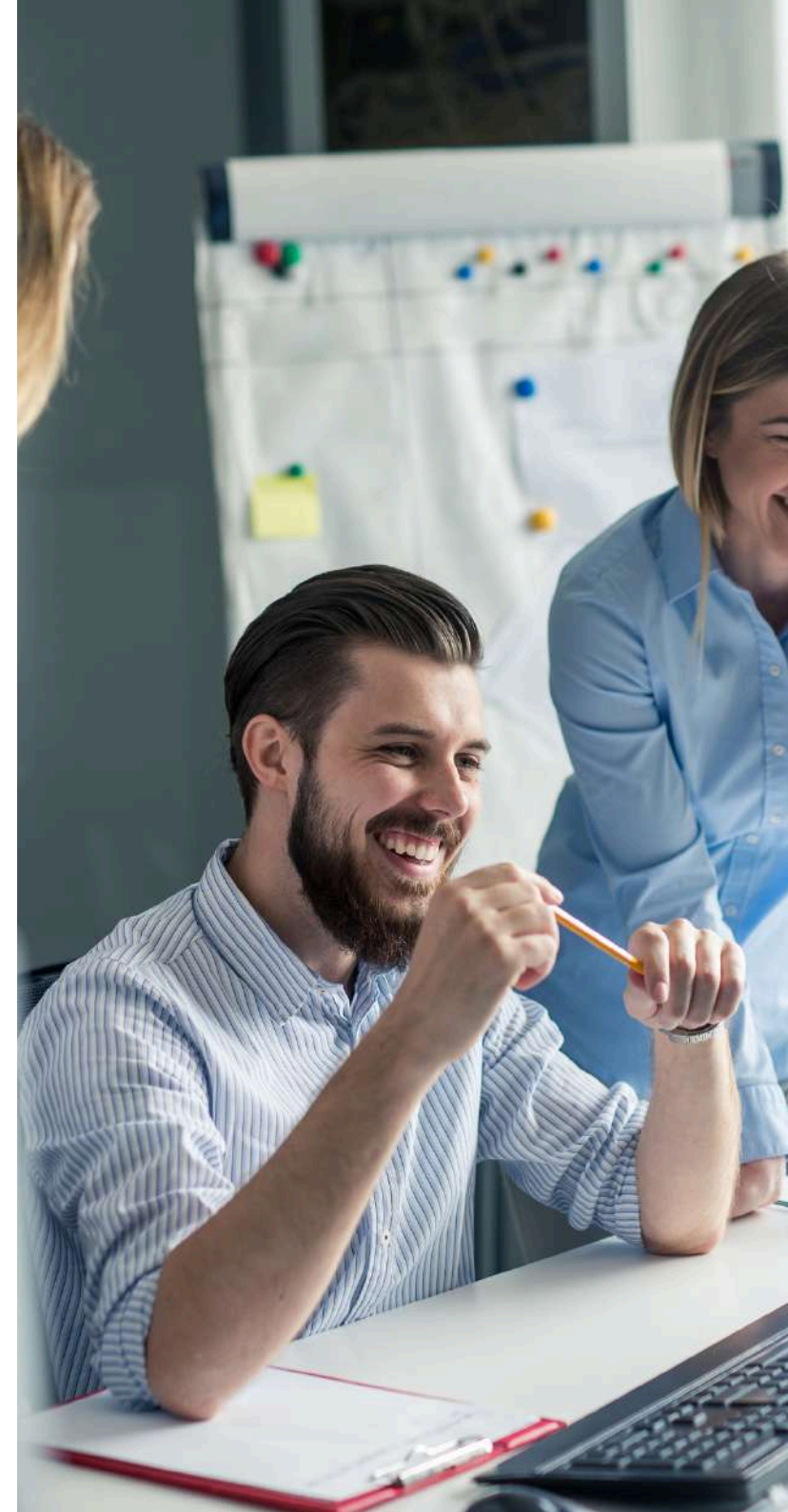
Module 5: Network Troubleshooting

This module develops confident, systematic problem-solving. Learners apply incident diagnostics, structured troubleshooting methodologies, and practical tools and techniques to isolate root causes and restore service quickly. They capture evidence through portfolio building—runbooks, logs, and reflections—and complete focused End Point Assessment preparation, including scenario practice, evidence mapping, and exam readiness.

Topics Covered:

- Incident Diagnostics
- Troubleshooting Methodologies
- Troubleshooting Tools
- Troubleshooting Techniques
- Portfolio Building
- EPA Preparation

Live Classes: 4 Sessions



End-Point Assessment



The End-Point Assessment (EPA) is completed with an awarding body. We ensure that the student is well prepared by conducting mock assessments and internal checks throughout the apprenticeship journey. Once we are in agreement that you are ready, with approval from the employer, the student will then be submitted for EPA.

Assessment Criteria

The apprenticeship criteria is made up of **Knowledge, Skills and Behaviours** that makes the occupational standard.



Knowledge

The ability to convey knowledge effectively



Skills

Demonstrate practical skills with confidence



Behaviour

Exhibit professional workplace behaviour

You can view all of the detailed assessment criteria within the **Information Communication Technician** standard via Skills England.

EPA Process



Portfolio

Everything prior to gateway is completed with **Velocity Academy**

Gateway (End of practical learning period)

Everything post gateway is completed with the End Point Assessment Organisation (**EPAO**).



Professional Discussion



Simulation

Certificate & Achievement





Ready to partner with us?



0113 286 6453



velocity-academy.co.uk

This information is correct as of publishing in August 2025

V1.0 2025

Funded by

Department
for Education

