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BIT TRAINING
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TRAINING

LEVEL 4 APPRENTICESHIP

BIT Training – CompTIA Network Engineer

STANDARD: NETWORK LEVEL 4

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STANDARD: NETWORK LEVEL 4

NETWORK ENGINEERS DEAL WITH BOTH SOFTWARE AND HARDWARE ISSUES, TROUBLESHOOTING AND RESOLVING ISSUES

LENGTH OF PROGRAMME: 18 Months in Learning + 4 Months EPA (28 Months Total)

PROGRAMME COST: £17,000

DELIVERY METHOD: Remote/Hybrid Delivery

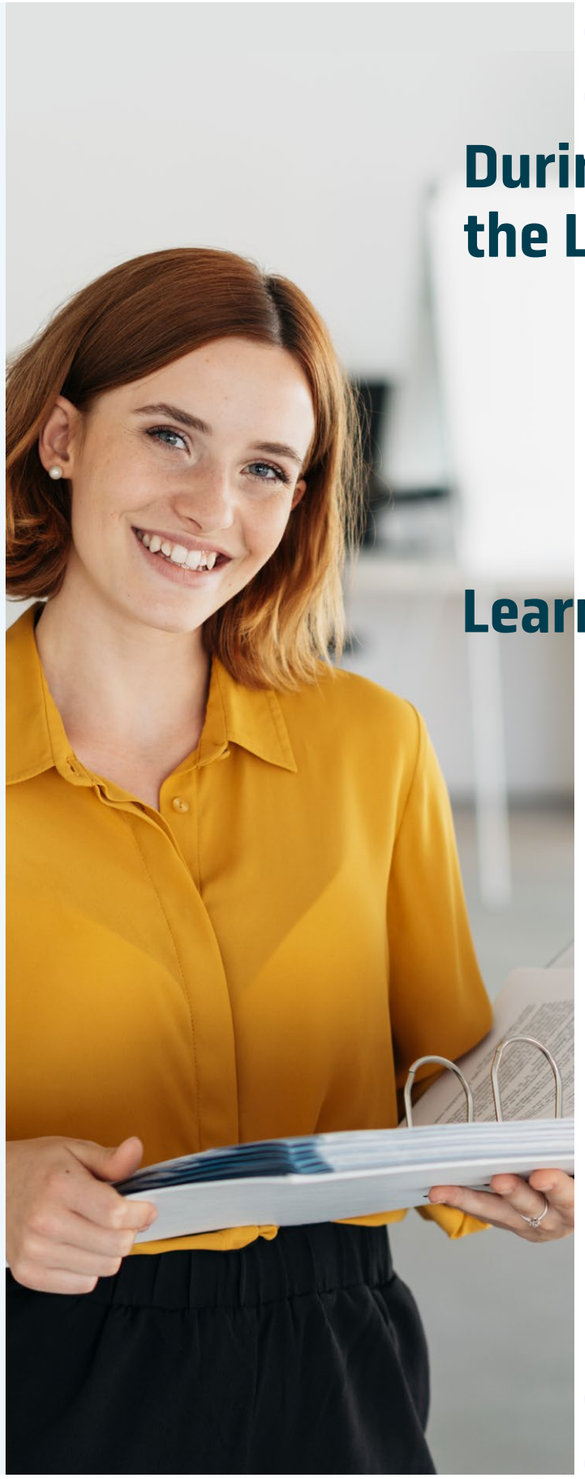
Network Engineers are found in both large and small organisations which rely on digital networks. Network Engineers may work within organisations to ensure functionality and performance is maintained for users and managing access to wired an wireless network resources appropriately. Network Engineers may work in large infrastructure projects as part of a team ensuring project milestones are reached delivering reliable network services and capability are maintained. Network engineers are usually office based and will deal with both software and hardware issues, troubleshooting and resolving issues to ensure service is maintained or resumed within agreed SLAs.

Typical job roles include: Desk Based Engineer, Dynamic Work Engineer, Field Based Engineer, Infrastructure Engineer, Network Administrator, Network Architect, Network Engineer, Systems Engineer

PROGRESSION ROUTES

DEGREE APPRENTICESHIPS: L6 Digital & Technology Solutions Professional (with integrated degree)

HIGHER EDUCATION: University



During the Programme, the Learner will Complete

TECHNICAL DELIVERY

- CompTIA Network+
- CompTIA Server+
- CompTIA Cloud+
- CompTIA Security+
- A comprehensive portfolio of evidence showing their Knowledge, Skills and Competency as a Network Engineer

Learning Commitment

LEARNER PORTFOLIO

- 1 half day training at the start of each module plus monthly support sessions from their tutor
- 1-2 days self-study each month planning, completing and evidencing portfolio evidence projects

INDUSTRY CERTIFICATIONS

- 2 training days per month
- Self-study through CompTIA's CertMaster Learn platform
- Free exam voucher for all CompTIA exams

FUNCTIONAL SKILLS

- Maths Level 2*
- English Level 2*

*Proof of GCSE grade C/4 or above or equivalent qualifications will proxy apprentices from sitting functional skills.

Core Duties

Our learning modules holistically allow apprentices to demonstrate competency across the following core duties.

DUTY 1 Install, configure, and test appropriate network components or devices securely to well-defined specifications whether physical or virtual.

DUTY 2 Acquire and analyse network performance data to monitor network activity.

DUTY 3 Optimise and maintain the performance of network systems or services in line with well-defined specification whether physical or virtual.

DUTY 4 Investigate and problem solve to address technical performance issues in networks to return the network to successful operation and escalate as necessary.

DUTY 5 Undertake upgrades to a network including physical or virtual systems.

DUTY 6 Interpret written requirements and technical specifications in relation to delivery of network systems and services.

DUTY 7 Maintain accurate logical records in line within organisational policy when carrying out network tasks.

DUTY 8 Use operational data to manage weekly work schedule in an efficient and cost effective way.

DUTY 9 Consider the impact and risks when implementing network changes in line with work activities and escalating as required by organisational policies.

DUTY 10 Communicate technical network requirements effectively and professionally with a range of stakeholders ensuring stakeholder relationships are maintained.

DUTY 11 Practice continuous self-learning to keep up to date with technological developments to enhance relevant skills and take responsibility for own professional development.

DUTY 12 Incorporate considerations of the requirements of the wider digital context in which they operate to ensure that network engineering activities are carried out effectively.

DUTY 13 Ensure all network engineering activity complies with organisational policies, technical standards, Health and Safety legislation, data security requirements, professional ethics, privacy and confidentiality.

DUTY 14 Deliver and manage a high quality service under pressure.

OUR LEARNING MODULES HOLISTICALLY ALLOW APPRENTICES TO DEMONSTRATE COMPETENCY ACROSS A WIDE RANGE OF CORE DUTIES.

Modules in Detail

MODULE 1: Planning work in line with business requirements and SLAs

Apprentices will demonstrate they understand and can organise and prioritise clients/stakeholders' requests and explains the use of Service Level Agreements as well as demonstrate how they outline their role as a Network Engineer to key stakeholders.

MODULE 2: Defining Network Tasks

Apprentices will demonstrate how they apply numerical skills in Network Engineering activities to ensure that outcomes meet the defined specifications for the network task as well as how they select appropriate tools in regard to specific Network activities and comply with organisation policies and processes when upgrading systems. This will include demonstrating they understand the purposes and uses of ports and protocols in Network Engineering activities, knowledge of features and factors that play a role in deployment of devices, applications, protocols and services at appropriate OSI and/or TCP/IP layers. They will also be able to explains the concepts and characteristics of routing and switching in Network Engineering activities. Apprentices will be able to Analyse how the use of different hardware and software required for network engineering activities could provide benefits to the organisation and evaluate the associated risks.

MODULE 3: Troubleshooting Network Issues

Apprentices will demonstrate and be able to explain how they investigate new approaches and tools to troubleshoot the organisation's network with a focus on security.

MODULE 4: Implementing Network Solutions

As part of implementing networking solutions and undertaking network maintenance activities, apprentices will show understanding of characteristics of network topologies, types and technologies as well as understanding cloud concepts and their purposes within the network engineering environment. They will be able to compare and contrast different approaches to maintaining system performance and integrity.

MODULE 5: Keeping Accurate Records

Apprentices will show how they have communicated and recorded Network Engineering outcomes to stakeholders in line with organizational procedures and Service Level Agreements taking into consideration an organisation's cultural awareness and its technical ability.

MODULE 6: Maintaining Security

Apprentices will demonstrate how they maintain the security and performance of the system against known standard threats, showing how they have applied the appropriate process, policies and legislation to ensure security and performance requirements have been met. They will be able to explain the types of current security threats to networks and analyse the evolving landscape of security threats to networks and how they mitigate threats.

MODULE 7: Understanding the Bigger Picture

Apprentices will be able to demonstrate how they have taken ownership of their own CPD during their apprenticeship and have responded to feedback on performance to meet the expectations of their organisation. They will also demonstrate an understanding of business continuity and the importance for managed change in their workplace.

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End Point Assessment (EPA)

EPA takes place over a period of four months once all learning is complete.

At the end of the learning period, the apprentice, employer and coach will meet to agree the apprentice is able to demonstrate all the duties, and to progress the apprentice through gateway to their EPA period.

EPA REQUIREMENTS:

EPA PROJECT The apprentice will complete a 6-week, 2000 word, work based project with an agreed title designed to showcase their abilities as a Network Engineer. The project title will be agreed at the gateway point.

PROFESSIONAL DISCUSSION The apprentice will complete a professional discussion lasting 90 minutes during which the Endpoint Assessor will discuss the apprentices learning and work experiences on programme and allow them to showcase their competency across all the apprenticeship duties. The structure of the professional discussion will be based on the portfolio of evidence submitted by the apprentice at gateway.

DELIVERY PARTNERS

CERTNEXUS CompTIA bcs The Chartered Institute for IT Accredited Training Partner

LEVEL 4 APPRENTICESHIP

BIT Training – CompTIA Network Engineer Timeline

MONTH 1
Induction

PLANNING WORK
CompTIA Network+ | 4 Days

MONTH 2-4
Module 1

MONTH 5-6
Module 2

DEFINING NETWORK TASKS
CompTIA Network+ | 4 Days

TROUBLESHOOTING NETWORK ISSUES
CompTIA Server+ | 4 Days

MONTH 7-8
Module 3

MONTH 9-10
Module 4

IMPLEMENTING NETWORK SOLUTIONS
CompTIA Server+ | 4 Days

RECORD KEEPING
CompTIA Cloud+ | 4 Days

MONTH 11-12
Module 5

MONTH 13-14
Module 6

MAINTAINING SECURITY
CompTIA Cloud+ | 4 Days

UNDERSTANDING THE BIGGER PICTURE
CompTIA Security+ | 4 Days

MONTH 15-16
Module 7

MONTH 17-18

EPA PROJECT & PROFESSIONAL DISCUSSION PREPARATION
CompTIA Security+ | 4 Days

Gateway

MONTH 19-22
Project & Questioning
EPA Professional Discussion
based on Portfolio