

Cyber Security Technologist Level 4

- 
- Includes 2 x Free
Extra Qualifications**
- Data Visualisation
 - Generative AI

**This apprenticeship
has 3 pathways...**

- Cyber Security Engineer
- Cyber Risk Analyst
- Cyber Defender & Responder

 **18 months + assessment** **Live online learning**

**Applying an understanding of cyber
security to protect from attacks and
unauthorised access**

★★★★★ **Excellent** ★★★★★ **Excellent**
Employer reviews **Apprentice reviews**

Official Department for Education (DfE) reviews and pass rate



99.5%
Pass Rate

Live Online Learning

“

Virtual lessons are more convenient than having to drive or pay for a train ticket to get on site. It's easy just to book a meeting room for the lesson. If I need assistance both my trainer and mentor are always quick to jump in and help.”

LearnTech Cyber Security Apprentice



★★★★★ Excellent
Employer reviews

★★★★★ Excellent
Apprentice reviews

99.5%
Pass Rate

Welcome to LearnTech



Katie Fowler

Director of Education

Our mission is to inspire and educate tech talent in England, by providing outstanding tech training and apprenticeships...



At LearnTech, our primary focus is to provide high-quality tech training and digital apprenticeships. We do this through innovative teaching, equipping students with the skills and knowledge they need to build outstanding careers in tech, and support organisations effectively.

When designing our curriculums, we consider the knowledge, skills (both technical and non-technical) and behaviours employers need most in the workplace, to impact the ability of our students to progress in their chosen careers. We work in partnership with our employers to deliver exceptional collaborative learning experiences tailored to real-world demands.

We're passionate about reducing gaps in accessibility and opportunity through our tech training, alongside literacy and numeracy

development, supporting our employers and partners to this end. We also have a dedicated team focused on accessibility and inclusivity for students with additional learning support needs, creating a safe, welcoming environment where everyone can thrive.

At LearnTech we never compromise quality for commercial gain. Our trainers and mentors have lower than average caseloads, ensuring every student benefits from regular, dedicated and personalised attention to enhance their learning.

Both our students and team are part of a community built on collaboration, plus continuous learning and improvement. Alongside our employer partners, they are at the heart of everything we do. We strive to create an environment where our educators can focus on what they do best - teaching tech and empowering the next generation of tech talent.

Connect on
socials to keep
up-to-date



Visit [Learn-Tech.com](https://www.learn-tech.com)



Cyber Security Technologist

Summary & Pathways



This apprenticeship equips aspiring individuals with practical knowledge in network security, cryptography, and threat intelligence, whilst sharpening their analytical and problem-solving skills.

Neil Brighton - Head of Department for Infrastructure, Cyber & Networking

The Cyber Security Technologist Standard (2021) has three distinct pathways to choose from; Engineer, Risk Analyst, and Defender & Responder.

From vulnerability assessments to incident response, these specialists play a crucial role in managing security risks and implementing protective measures across systems and networks.

Their expertise ensures protection and the resilience of the digital infrastructures that underpin modern society.

Our apprenticeship equips individuals with essential security concepts, technologies, and risk mitigation strategies, enabling them to achieve cyber security outcomes within legal and regulatory frameworks.

Core content



The primary role of all Cyber Security Technologists is to protect the digital landscape using the latest techniques to defend organisations from evolving cyber threats. All pathways share the same core content, with additional specialisms relevant for each pathway. The pathway is chosen at the beginning of the apprenticeship programme, allowing the apprentice the full course duration to build their specific portfolio.

- ✓ **Apply** cryptography principles and techniques
- ✓ **Apply** network services in line with security protocols
- ✓ **Categorise** network attacks & exploits
- ✓ **Create** network troubleshooting strategies
- ✓ **Create/develop** threat modelling strategies
- ✓ **Diagram** network topologies
- ✓ **Ensure** compliance with business legislation
- ✓ **Examine** network protocols, vulnerabilities and mitigation techniques
- ✓ **Plan** network diagnostics
- ✓ **Troubleshoot** using the OSI and TCP/IP models
- ✓ **Understand** the use of Service Level Agreements

1

Cyber Security Engineer

Technology focused

Cyber Security Engineers are technology orientated, designing, building and testing secure networks or security products or systems. They focus particularly on the security aspects of a design.



Additional specialist content

- ✓ **Assess** the effectiveness of systems and tools
- ✓ **Evaluate** attack scenarios using a security case
- ✓ **Create** network troubleshooting strategies
- ✓ **Understand** functional and non-functional security
- ✓ **Enhance** security through subnetting

2

Cyber Risk Analyst

Risk & governance focused

Cyber Risk Analysts specialise in assessing and analysing risks, providing advice on mitigation strategies to safeguard organisations from potential threats. This role may also support formal security governance, regulatory requirements and compliance (GRC).



Additional specialist content

- ✓ **Analyse** risk and how they affect business continuity management
- ✓ **Design & implement** a risk assessment process within the business
- ✓ **Create** a cyber awareness campaign in your business
- ✓ **Enhance** security through subnetting
- ✓ **Create** network troubleshooting strategies
- ✓ **Understand** functional and non-functional security

3

Cyber Defender & Responder

Operations focused

Cyber Defenders & Responders focus on configuring and operating secure systems to prevent security breaches and monitor systems to detect and respond to threats, ensuring real-time security.



Additional specialist content

- ✓ **Assess** the effectiveness of systems and tools
- ✓ **Integrate** and utilise SIEM systems
- ✓ **Design** incident response plans
- ✓ **Manage** issues using local response procedures
- ✓ **Develop** threat mitigation strategies
- ✓ **Perform** data and root cause analysis

All candidates will need to...

- ☐ **Be employed in or being hired** into a job role with cyber security responsibilities
- ☐ **Be working on real-world cyber security projects** to showcase their knowledge and skills
- ☐ **Have support from their employer** to dedicate approximately 8 working hours a week to training

Overview

Who is it for?

This apprenticeship is designed for individuals working in cyber security positions, protecting digital environments and managing security threats.

Apprenticeship candidates are likely to be working in cyber security as

- Engineers
- Consultants
- Architects
- Specialists
- Technicians
- Analysts

Knowledge, Skills & Behaviours (KSBs)

This apprenticeship has been carefully designed by our experts to ensure it covers all the required knowledge, skills, and behaviours (KSBs) outlined in the Skills England Cyber Security Technologist Apprenticeship Standard.

For full details visit www.skillsengland.education.gov.uk/apprenticeships

Throughout the programme, the employer works closely with the apprentice to ensure that all occupation duties are fulfilled, experienced, and properly evidenced as part of the apprenticeship.

By the end of the programme, the apprentice will have developed a comprehensive knowledge base and skill set.

What are KSBs?

Knowledge, skills and behaviours (KSBs) refer to the essential elements an apprentice must master to be confident and competent in their organisation's occupation duties.



Knowledge

The information, technical detail, and 'know-how' needed to effectively perform job tasks.



Skills

The practical application of knowledge, enabling an apprentice to successfully carry out their duties.



Behaviours

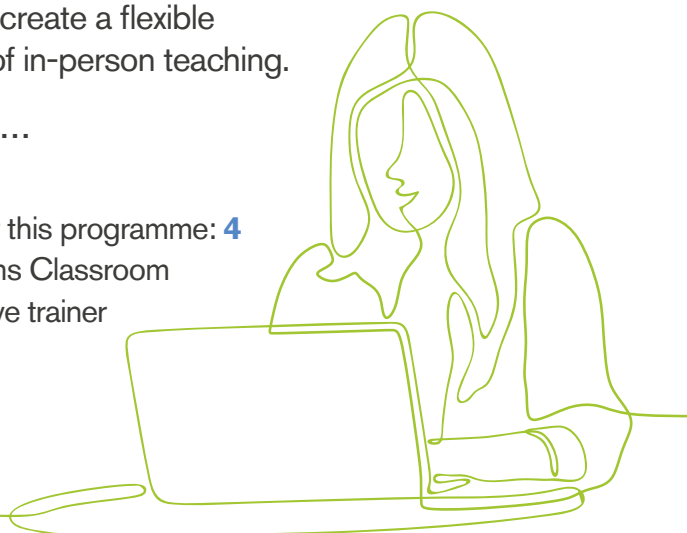
Mindsets, attitudes or approaches needed for competence.

Live online learning

Our interactive live, online training model is designed to create a flexible learning environment without losing any of the benefits of in-person teaching.

An apprenticeship with LearnTech typically looks like...

- **Live weekly online sessions** – 2 hours per week
- **Off-the-job training (OTJT)** – Weekly minimum hours for this programme: **4**
- **Immersive learning experience** through Microsoft Teams Classroom
- **Maximum classroom size of 12** ensures a highly effective trainer to student ratio
- **Monthly 1 to 1 mentor meetings**
- **Maths and English - if required**



 **Includes**
2 x Free Qualifications

Professional Courses

Unlock more value with additional skills

At LearnTech, we're committed to maximising the impact of every apprenticeship. That's why all our Level 3 to Level 5 programmes now include additional accredited qualifications, at **no extra cost to employers or apprentices.**

The courses are built into the apprenticeship journey, enhancing the apprentice's experience and delivering even more value back to the business. Apprentices gain practical, career boosting skills that align with real world demands, while organisations benefit from a more capable, confident and future-ready team.

Key benefits at a glance



Zero cost

These additional qualifications are included at no additional cost, removing financial barriers for both employers and apprentices.



Enhanced training

Our accredited courses combine hands-on training with technical insight, helping apprentices take on greater responsibility and drive innovation within their teams.



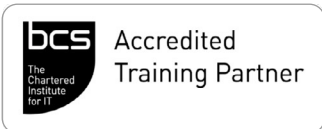
Recognised accreditations

Apprentices gain in-demand, industry-recognised qualifications that sharpen their expertise and improve outcomes across the business.



Tackling the skills gap

By embedding future-focused learning into our programmes, we're helping employers build a strong, sustainable talent pipeline in key growth sectors.



“ We work closely with employers across England to stay ahead of national skills needs. We use our employer-led insights to complement apprenticeships with enhanced learning to support industry demand. Our aim is to help reduce skills gaps and offer unbeatable value, underpinned by innovative education practice. ”



Katie Fowler
Director of Education

These accredited qualifications are designed to give students a recognised foundation across a range of critical topics.

Professional courses included in this apprenticeship



BCS Award: Data Visualisation

Explore how data supports decision making within organisations and the importance of presenting accurate data effectively. This award covers the principles of data-driven decision making, as well as the tools used for data storage, analysis and visual presentation.



BCS Award: Generative AI

Discover how generative AI represents a major shift in organisations – from how they operate and interact with customers, to developing new products and services.

BCS and Microsoft qualifications are delivered over 2 – 4 training days, typically spread across several weeks (for example, one day per week). Apprentices should also expect to complete approximately 30 – 50 hours of independent learning per qualification. This additional learning does not form part of apprenticeship off-the-job training requirements.

All training, exam preparation and final exams are included.

Explore courses
in apprenticeships



Timeline & Process

1 Enquiry to enrolment

4 - 8 weeks

Programme planning & paperwork

This first phase involves all parties - employer, apprentice and LearnTech designing the bespoke apprenticeship training plan, and completing contracts and relevant paperwork.

2 Training, mentoring and gateway

18 months

This is when the on and off-the-job training, knowledge, skills and behaviours work begins, and continues for the duration of the programme.

LearnTech's designated mentor will be the primary contact for both the employer and apprentice, offering continuous support throughout the programme.

Once the apprentice has reached the end of their programme, they will enter Gateway. This is an evaluation period between completing their training and final preparations for their apprenticeship assessment.

Training

- 2 hours weekly training session
- 4 hours minimum extra study / practice weekly, also known as off-the-job training
- 1 - 2 hours English / maths training weekly, if required

Mentoring

- 1 hour mentoring session every 4 weeks
- 1 hour progress review every 10 weeks
- Extra hours for additional learning support, if required
- Extra hours for apprenticeship assessment preparation, if required

Gateway

Apprentice, employer and LearnTech agree apprentice is ready for their apprenticeship assessment.

3 Apprenticeship assessment

Up to 3 months

Opportunity for apprentice to demonstrate their knowledge and skills against the apprenticeship criteria to gain their qualification.

Methods

- Professional discussion underpinned by portfolio (90 mins)
- Scenario demonstrations with questioning (1-3 hours)
- Project report (max 2,000 words)
- Knowledge test (60 mins)

4 Alumni After successful completion

Continued development

LearnTech are keen to offer your apprentice support to develop further and opportunities to share their skills.

Apprenticeship funding

Government funding is available to all employers who hire an apprentice, with up to 100% of the training costs covered. The amount of funding an employer can receive depends on factors like their payroll bill, the number of employees, and the apprentice's age.

For detailed information on how apprenticeship funding works and what a business may qualify for, see our Employer Guide.

Next steps

If you'd like to become an apprentice...

An apprenticeship is tied to employment and available to anyone aged 16+. Here are the three main ways to get started...

- Apply for an apprenticeship vacancy. Check out our current openings at learn-tech.com/vacancies or visit findapprenticeship.service.gov.uk
- Talk to your current employer about an apprenticeship as part of your career development
- Approach another employer, proposing to join their team as an apprentice

Explore learn-tech.com/apprentice-guide for more information.

If you're an employer...

Tech apprenticeships are a great way for your organisation to develop skilled employees relevant to your business. Explore our Employer Guide for comprehensive information about our tech apprenticeships and how to recruit your apprentice.

If you have any questions or would like to book a no obligation Information Session, please contact us and we'll be happy to help.

learn-tech.com/employer-guide

0333 014 8260

martin@learn-tech.com

★★★★★ **Excellent
Employer reviews**

Official Department for Education (DfE) reviews and pass rate

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