CYBER SECURITY TECHNICIAN APPRENTICESHIP LEVEL 3

bcs The Chartered Institute for IT Approved Centre

For new or existing staff

This apprenticeship standard is for those providing first line cyber security support. This requires individuals to monitor and detect potential security threats and escalate as necessary, and to support secure and uninterrupted business operations of an organisation through the implementation of cyber security mechanisms and the application of cyber security procedures and controls.

Qualification

Cyber Security Technician
Level 3

Completers may want to progress to
Cyber Security Degree Apprenticeship

Delivery model and duration:
Skills and behaviours developed in the workplace, complemented by college block delivery of required knowledge
Duration: 18 months plus 3 months End Point Assessment

Ideal for:
- Cyber Security Administrator
- Access Control Administrator
- Incident Response Technician
- Junior Security Operations Centre (SOC) Analyst
- Junior Information Security Analyst
- Junior Threat and Risk Analyst
- Junior Penetration Tester
- Junior Security Analyst

The apprenticeship will cover the following core areas:
- Threat hazards, risk and intelligence
- Security threats
- Maintaining security and control of an organisation
- Cyber security mechanisms and controls: patching software, installing software updates, implementing access control, configuring firewalls
- Security incident and event management tools (SIEM) tools and protection tools
- Information security policy and procedure

Benefits to business:
- Develop the skills your business needs
- Get qualified and motivated staff
- Future proof your business

Entry Criteria:
- GCSEs in English and maths grade 9-4 or A* - C

Benefits for learners:
- Develop skills that will increase your career potential
- Support from industry experienced staff working with the British Computing Society
- Become an associate member of the BCS
- Become a registered IT Technician (RITTech)
- Become an accredited affiliate of the Chartered Institute for Information Security

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Gloucestershire College

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End Point Assessment

The End Point Assessment will test the entire Standard, and be undertaken as follows:

- Scenario demonstrations with questioning by an independent assessor
- A professional discussion with an independent assessor underpinned by a portfolio of 8 discrete pieces of evidence
- A knowledge test

Performance in the End Point Assessment will determine the overall apprenticeship standard grade of pass, fail or distinction.

Components

Functional Skills English and maths Level 2

Duties developed during the apprenticeship will include:

Cyber security policies and standards based on an Information Security Management System (ISMS)

Principles of cyber security compliance and compliance monitoring techniques

Cryptography, certificates and use of certificate management tools

Processes for detecting, reporting, assessing, responding to, dealing with and learning from information security events

Threat sources and threat identification and network reconnaissance techniques and the impact that threats might have on an organisation

Types of information security events – brute force attack, malware activity, suspicious user behaviour, suspicious device behaviour, unauthorized system changes

Computer forensic principles – the importance of ensuring that evidence is not contaminated and maintaining the continuity of evidence without compromising it

Standard information security event incident, exception and management reporting requirements and how to document incident and event information as part of a chain or evidence

Cyber security audit requirements, procedures and plans, need to obtain and document evidence in an appropriate form for an internal or external auditor to review

Different learning techniques and the breadth and sources of knowledge and sources of verified information and data

Risk assessment, risk management and business impact analysis principles

How their occupation fits into the wider digital landscape and any current or future regulatory requirements

How to use data ethically and the implications for wider society, with respect to the use of data

Roles within a multidisciplinary team and the interfaces with other areas of an organisation

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