



CYBER SECURITY TECHNOLOGIST LEVEL 4

EMPLOYER COSTINGS

[www.craven-college.ac.uk/
apprenticeship-costings](http://www.craven-college.ac.uk/apprenticeship-costings)

DURATION & ATTENDANCE

24 months - Day release

START DATES

Roll on roll off

END ASSESSMENT

End Point Assessment
Observations

QUALIFICATION

Level 4 Apprenticeship Standard
Cyber Security Technologist

WAGES

[www.gov.uk/apprenticeships-
guide/pay-and-conditions](http://www.gov.uk/apprenticeships-guide/pay-and-conditions)

OVERVIEW

The primary role of a Cyber Security Technologist is to apply an understanding of cyber threats, hazards, risks, controls, measures and mitigations to protect organisations systems and people. This involves working to achieve the required security outcomes, in a legal and regulatory context, in all parts of the economy. Individuals will develop and apply practical knowledge of information security to deliver solutions that fulfil an organisation's requirements.

Typical job roles could include: Cyber Operations Manager, Security Architect, Penetration Tester, Security Analyst, Risk Analyst, Intelligence Researcher, Security Sales Engineer, Cyber Security Specialist, Information Security Analyst, Governance & Compliance Analyst, Information Security Assurance & Threat Analyst, Forensics & Incident Response Analyst, Security Engineer, Information Security Auditor, Security Administrator, Information Security Officer

ENTRY REQUIREMENTS

Individual employers will set the selection criteria, but this is likely to include A Levels, a relevant Level 3 Apprenticeship, or other relevant qualifications, relevant experience and/or an aptitude test with a focus on functional Maths.

TECHNICAL COMPETENCIES

- Discover vulnerabilities in a system
- Analyse and evaluate security threats and hazards to a system or service or processes
- Research and investigate some common attack techniques and recommend how to defend against them
- Undertake a security risk assessment for a simple system without direct supervision and propose basic remediation advice in the context of the employer
- Developing and using a security case
- Source and analyse a security case (e.g. a Common Criteria Protection Profile for a security component)
- Develop a simple security case without supervision
- Identify and follow organisational

policies and standards for information and cyber security

- Operate according to service level agreements or employer defined performance targets
- Investigate different views of the future (using more than one external source) and trends in a relevant technology area

KNOWLEDGE & UNDERSTANDING

- Why cyber security matters
- Basic theory – concepts such as security, identity, confidentiality, integrity, availability, threat, vulnerability, risk and hazard
- Security assurance – concepts
- How to build a security case
- Cyber security concepts applied to ICT infrastructure
- Attack techniques and sources of threat
- Cyber defence
- Relevant laws and ethics

- The existing threat landscape
- Threat trends

SKILLS, ATTITUDES & BEHAVIOURS

- Logical and creative thinking skills
- Analytical and problem solving skills
- Ability to work independently and to take responsibility
- Can use own initiative
- A thorough and organised approach
- Ability to work with a range of internal and external people
- Ability to communicate effectively in a variety of situations
- Maintain productive, professional and secure working environment

MODULES ON THE COURSE

- Cyber Security Introduction
- Network and Digital Communications Theory

- Security Case Development and Design Good Practice
- Security Technology Building Blocks
- Employment of Cryptography

ENGLISH AND MATHS

- English and Maths Level 2 will need to be achieved, if not already, prior to taking the end point assessment.

PROFESSIONAL RECOGNITION

This Apprenticeship is recognised for entry to both IISP and BCS Associate Membership and for entry onto the Register of IT Technicians confirming SFIA Level 3 professional competence. Those completing the Apprenticeship are eligible to apply for registration.

To find out more about this qualification please contact: Craven College Apprenticeships Team on: 01756 693 680 or email: apprenticeships@craven-college.ac.uk