IN PARTNERSHIP WITH

Northumbria University
NEWCASTLE

BSC (HONS) CYBER SECURITY TECHNICAL PROFESSIONAL DEGREE APPRENTICESHIP

LEVEL 4, 5 & 6

The BSc (Hons) Cyber Security Technical Professional Degree Apprenticeship is designed to enhance and accelerate cyber skills. It is a work-based learning programme that develops advanced understanding of cyber security issues and technology solutions.

It is a structured, research-rich learning programme that includes a range of learning experiences – including classroom workshops and work-based activities. As a work-based programme, it supports development of skills needed within an organisational context and is designed to deliver improvement to practice.

Northumbria University's Computer and Information Sciences Department has an international track record in all areas of cyber security, digital forensics, artificial intelligence, human-computer interaction, IoT and big data and information sciences ensuring content is contemporary, research informed and practice focused.

Learners will develop, update, extend and deepen their knowledge and technical competency. Combined with enhancing professional skills and behaviours, it empowers learners to excel in the field of cyber security.

DURATION: 48 months + completion of End Point Assessment, typically 6 months

AWARD: BSc (Hons) Cyber Security Technical Professional, awarded by Northumbria University, Newcastle

APPRENTICESHIP STANDARD: Cyber Security Technical Professional (Integrated Degree)

ENTRY REQUIREMENTS: 120 UCAS tariff points

ENGLISH ENTRY REQUIREMENTS: GCSE English at Grade C (4) or equivalent

MODE OF STUDY: Part-Time, blended and work-based learning

ASSESSMENT METHODS: Coursework including portfolios and the End Point Assessment (EPA)

START DATES: October, January, April, July

LOCATIONS: London, Birmingham, Manchester, Newcastle, Bristol
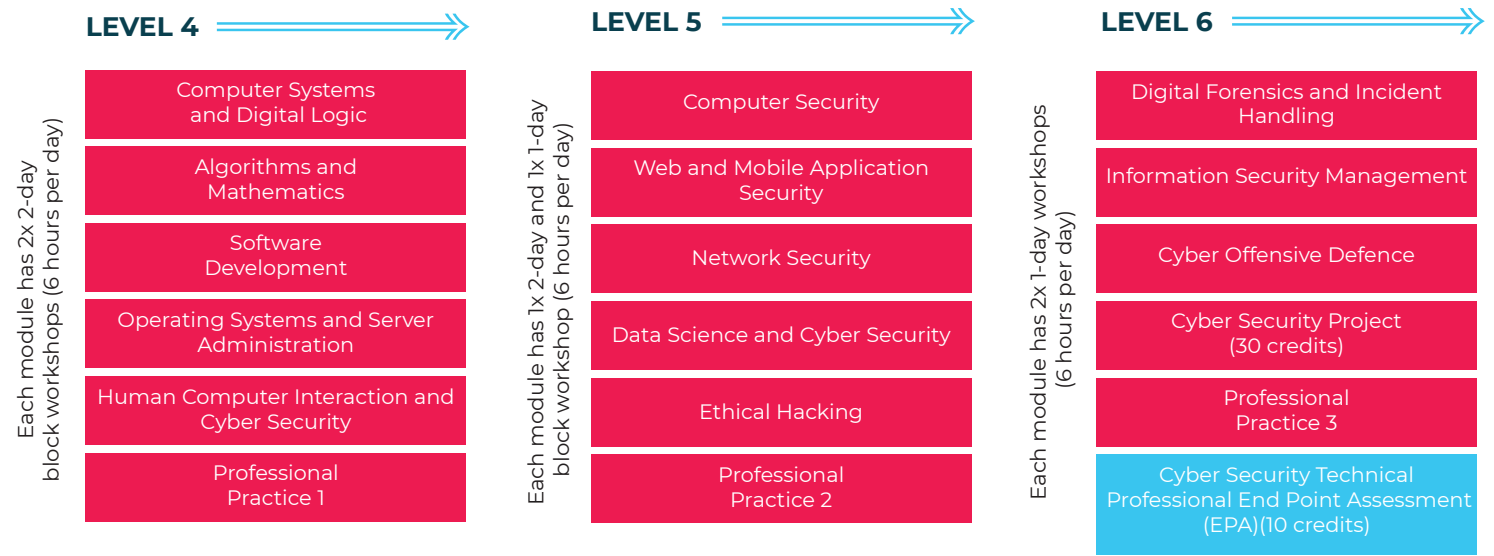
SECURITY STARTS WITH CYBER SKILLS

This degree apprenticeship equips people to work in a range of computing, IT, and digital technology roles where cyber security plays a vital role. This programme uses a range of different ways to learn.

Work-based activities, digital learning and online resources develop students' knowledge throughout the programme. Learners also attend face-to-face workshops to help contextualise learning. 20% of working time is required for studying – we will talk you through this.

The programme has also been designed to meet the requirements of the BCS, The Chartered Institute for IT and intended to meet the educational requirements for Chartered Information Technology Professional (CITP) registration.

All modules are core and are 20 credits unless otherwise stated

LEVEL 4
Each module has 2x 2-day block workshops (6 hours per day)

- Computer Systems and Digital Logic
- Algorithms and Mathematics
- Software Development
- Operating Systems and Server Administration
- Human Computer Interaction and Cyber Security
- Professional Practice 1

LEVEL 5
Each module has 1x 2-day and 1x 1-day block workshop (6 hours per day)

- Computer Security
- Web and Mobile Application Security
- Network Security
- Data Science and Cyber Security
- Ethical Hacking
- Professional Practice 2

LEVEL 6
Each module has 2x 1-day workshops (6 hours per day)

- Digital Forensics and Incident Handling
- Information Security Management
- Cyber Offensive Defence
- Cyber Security Project (30 credits)
- Professional Practice 3
- Cyber Security Technical Professional End Point Assessment (EPA)(10 credits)

What is Professional Practice?

These are self-guided modules that allow learners to tailor the programme to the environment they work in. They are an opportunity to develop specialist cyber security skills.

Before completing their EPA, learners must have:

- Passed all the other modules in this programme
- Agreement from their employer that they are ready for the EPA
- Completed the e-portfolio
- Completed level 2 English and maths qualifications (if not already achieved)