



Course Choice Information – NPA Cyber Security Level 4, 5 & 6

Course Information & Content

The NPA in Cyber Security is designed to give students both theoretical knowledge and practical skills in the vitally important area of Cyber Security. As cybercrime becomes an increasing threat in modern business and personal internet use, demand for skills in this area is very high.

The course is made up of three units:

Data Security

Pupils will learn about the legal and ethical obligations around storing and sharing personal and business data. They are expected to explain the causes and effects of security breaches and learn skills to protect data against security breaches.

Digital Forensics

Pupils will gain an insight into the digital forensics process as used by law enforcement for investigating cybercrime. They will learn to apply relevant techniques in acquiring data and how to preserve and examine digital evidence.

Ethical Hacking

Pupils will learn about current tools and techniques used by ethical and malicious hackers to compromise computer systems. They must understand current legislation relating to computer crime and hacking. They will also learn to perform a routine penetration test on a computer system within a controlled environment.

Assessment

The course is continually assessed through ongoing work and successful completion of all outcomes, at an appropriate level, across all three units.

Homework

Homework will be set as necessary throughout the course to complement the work being done in the classroom. Access to a computer would be beneficial for pupils to access their materials at home.

Progression

N5/H Computing Science |HNC/D courses at college including Ethical Hacking |Cyber Security and Network Engineering |World-renowned University Degree courses in Cyber Security

Career Options

Anyone who is interested in the fields of cyber security, digital forensics and personal online safety, and may consider further study or careers in this area, such as Secretarial jobs
Information Security advisors |Police & Related Law Enforcement staff |Computer Network managers
|Online commerce |Anyone working in an IT context in Businesses

As the course develops a high degree of awareness of cyber threats is it suited to any pupil who wishes to help protect themselves, their friends and their families from online crime.

[Further information - SQA](#)

