

Awarding body information

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Awarding body information

What is the name of the awarding body? Leeds City College

Is the awarding body a higher education provider? Yes

Is the awarding body on the Office for Students register? Yes

Qualification information

Qualification information

You can only submit one qualification for each form. If you are submitting multiple qualifications you must start a new form for each qualification. Please include the name of the qualification as it appears on Ofqual register or UCAS. Include the size of the qualification. e.g. award, certificate, diploma

What is the name of the qualification?

FD Cyber Security

Is the qualification on the Ofqual register?

No

If the qualification is not regulated by Ofqual, the organisation owning the qualification must be OfS regulated. This is typically the case of qualifications from Higher Education Providers. For organisations which are Ofqual regulated, the specific qualification must be on the Ofqual register for the application to be progressed. The form will not prevent continuing if this is not completed, but your application cannot be progressed by the approval managers following submission if the awarding organisation is regulated by Ofqual but the qualification is not.

What is the level of the qualification?

Level 5

Route and occupational standards

Route and occupational standards

Awarding bodies must demonstrate that a qualification will enable a person to demonstrate that they have attained as many of the knowledge, skills and behaviours set out in the standard as may be reasonably

expected by undertaking a course of education.

Please note:

• Qualifications will only be considered for approval against occupational standards approved by the Institute.

If qualifications have optional units or pathways, we will only approve qualifications where every possible combination of units/ pathways ensures that a learner achieves competence in at least one occupation for which there is a standard. Qualifications with optional units that do not ensure this should be redesigned or remove optional units that do not align to occupations.

Awarding bodies must fill out all sections of this form. They must also submit supporting documentation to provide evidence of the following:

- The content of the qualification (for example, the specification of content)
- Evidence of employer engagement in the development and validation of the qualification (for example this could be within the qualification design and validation documentation that was used through the development of the qualification which evidences where and how employers were involved)

Which route does the qualification fall under? Digital

Which occupational standards are aligned to the qualification? Cyber-secruity technologist/Level: 4 Network engineer/Level: 4

Attach documents

Please attach the following documents:

- The content of the qualification (for example, the specification of content)
- Evidence of employer engagement in the development and validation of the qualification (for example this could be within the qualification design and validation documentation that was used through the development of the qualification which evidences where and how employers were involved)

Cyber-security technologist Cyber-security technologist Knowledge, skills and behaviours coverage within the qualification

Please identify which knowledge, skill and behaviour statements from the occupational standard are covered within the qualification.

Where knowledge, skill and behaviour statements are covered, please provide a reference to the qualification content. This should be a unit or module reference along with associated page/paragraph/line numbers (as appropriate) in the attached specification. Please be as specific as possible which content in the qualification aligns to the statement in the standard.

Where knowledge, skill or behaviour statements are partially covered or not covered, you will be asked to provide a rationale for the exclusion of this content from the qualification. The employer engagement evidence provided should support this rationale.

The following questions assess how knowledge, skill and behaviour statements from the occupational standards are covered within the qualification.

This page has automatically generated an item for each knowledge, skill and behaviour statement (KSB) contained within the chosen standard. So please do not remove or add any further KSBs, as it requires the exact number.

KSBgenerator

KSB

KSB 1

K1 Principles of networks: OSI and TCP/IP models, data, protocols and how they relate to each other; the main routing protocols; the main factors affecting network performance including typical failure modes in protocols and approaches to error control; virtual networking.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Module Specifications - Networks, Principles of Cyber Security and Securing Networks

KSB 2

K2 The concepts, main functions and features of at least three Operating Systems (OS) and their security functions and associated security features.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered? Module descriptors - Networks, Principles of Cyber Security and Linux and Scripting

KSB 3

K3 Cyber security concepts and why cyber security matters to business and society; Security assurance concepts and how assurance may be achieved in practice including penetration testing and extrinsic assurance methods.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered? Module specifications: Principles of Cyber Security, Professional Development and Securing Networks

KSB 4

K4 The main types of common attack techniques; also the role of human behaviour, including the significance of the 'insider threat'. Including: - how attack techniques combine with motive and opportunity to become a threat. - techniques and strategies to defend against attack techniques and mitigate hazards.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Module specifications: Principles of Cyber Security, Linux and Scripting and Ethics and Ethical Hacking

KSB 5

K5 The significance of identified trends in cyber security threats and understand the value and risk of this analysis. How to deal with emerging attack techniques (including 'zero day'), hazards and vulnerabilities relevant to the digital systems and business environment.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered? Module specifications: Networks, Principles of Cyber Security, Personal and Professional Development and Employability skills

KSB 6

K6 Lifecycle and service management practices to an established standard to a foundation level

for example Information Technology Infrastructure Library (ITIL) foundation level.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Module Specifications: Networks, Principles of Cyber Security, Professional Development and Employability Skills

KSB 7

K7 Cyber incident response processes, incident management processes and evidence collection/preservation requirements to support incident investigation.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Module Specifications: Principles of Cyber Security and Computer Forensics

KSB 8

K8 Understands the main features, applicability and how to apply the significant law, regulations and standards relevant specifically to cyber security. To include: laws, regulations & standards relating to personal data and privacy (e.g. Data Protection Act 2018 implementing General Data Protection Regulation); use of digital systems (e.g. Computer Misuse Act 1990); regulatory standards for cyber security, intelligence collection and law enforcement (e.g. Intelligence Services Act 1994, Regulation of Investigatory Powers Act 2000; standards for good practice in cyber security (e.g. ISO 27001, CyberEssentials, NIST) and any updates or additions.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Module Specifications: Principles of Cyber Security, Personal Development, Employability Skills, Ethics and Ethical Hacking and Project

KSB 9

K9 Ethical principles and codes good practice of at least one significant cyber security professional body and the ethical responsibilities of a cyber security professional.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Module Specifications: Principles of Cyber Security, Personal Development, Employability Skills and Ethics and Ethical Hacking

KSB 10

K10 How to analyse employer or customer requirements to derive security objectives and taking account of the threats and overall context develop a security case which sets out the proposed

security measures in the context with reasoned justification.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered? Module Specifications: Principles of Cyber Security, Employability Studies and Project

KSB 11

K11 Horizon scanning including use of recognised sources of threat intelligence and vulnerabilities.

Is the statement covered within the qualification? Fully covered

Fully covered

Where within the qualification is the statement covered? Module Specifications: Principles of Cyber Security and Ethics and Ethical Hacking

KSB 12

K12 Common security architectures and methodologies; be aware of reputable security architectures that incorporates hardware and software components, and sources of architecture patterns and guidance. How cyber security technology components are typically deployed in digital systems to provide security functionality including: hardware and software to implement security controls.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Module Specifications: Networks, Principles of Cyber Security and Security Networks

KSB 13

K13 The basic terminology and concepts of cryptography; common cryptography techniques in use; the importance of effective key management and the main techniques used; legal, regulatory and export issues specific to use of cryptography.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Module Specifications: Networks, Computer Forensics and Securing Networks

KSB 14

K14 Risk assessment and audit methodologies and approaches to risk treatment; approaches to identifying the vulnerabilities in organisations and security management systems; the threat intelligence lifecycle; the role of the risk owner in contrast with other stakeholders.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Module Specifications: Principles of Cyber Security, Employability Skills and Project

KSB 15

K15 Principles of security management systems, including governance, organisational structure, roles, policies, standards, guidelines and how these all work together to deliver the identified security outcomes.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Module Specifications: Principles of Cyber Security, Employability Skills and Project

KSB 16

K16 Function and features of significant digital system components; typical architectures; common vulnerabilities in digital systems; principles and common practice in digital system security.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Module Specifications: Networks, Linux and Scripting and Securing Networks

KSB 17

K17 Programming or scripting languages.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Module Specification: Linux and Scripting

KSB 18

S1 Discover vulnerabilities in a system by using a mix of research and practical exploration).

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Module Specifications: Networks, Professional Development, Computer Forensics, Employability Skills and Ethics and Ethical Hacking

KSB 19

S2 Analyse and evaluate security threats and hazards to a system or service or processes. Use relevant external source of threat intelligence or advice (e.g. National Cyber Security Centre) Combine different sources to create an enriched view of cyber threats and hazards.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Module Specifications: Principles of Cyber Security, Professional Development, Computer Forensics, Employability Skills and Ethics and Ethical Hacking

KSB 20

S3 Research and investigate common attack techniques and relate these to normal and observed digital system behaviour and recommend how to defend against them. Interpret and demonstrate use of external source of vulnerabilities (e.g. OWASP, intelligence sharing initiatives, open source).

Is the statement covered within the gualification? Fully covered

Where within the qualification is the statement covered? Module Specifications: Computer Forensics and Ethics and Ethical Hacking

KSB 21

S4 Undertake security risk assessments for simple systems without direct supervision and propose basic remediation advice in the context of the employer.

Is the statement covered within the gualification?

Fully covered

Where within the qualification is the statement covered?

Module Specifications: Principles of Cyber Security, Employability Skills, Ethics and Ethical Hacking and Project

KSB 22

S5 Source and analyse security cases and describe what threats, vulnerability or risks are mitigated and identify any residual areas of concern.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Module Specifications: Principles of Cyber Security, Employability Skills, Ethics and Ethical Hacking and Project

KSB 23

S6 Analyse employer or customer requirements to derive security objectives and taking account of the threats and overall context develop a security case which sets out the proposed security measures in the context with reasoned justification.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Module Specifications: Professional Development, Employability Skills and Project

KSB 24

S7 Identify and follow organisational policies and standards for information and cyber security and operate according to service level agreements or other defined performance targets.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Module Specifications: Principles of Cyber Security, Professional Development, Employability Skills and Project

KSB 25

S8 Configure, deploy and use computer, digital network and cyber security technology.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Module Specifications: Networks, Securing Networks and Project

KSB 26

S9 Recommend improvements to the cyber security posture of an employer or customer based on research into future potential cyber threats and considering threat trends.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered? Module Specifications: Employability Sills and Project

KSB 27

S10 Design, build, test and troubleshoot a network incorporating more than one subnet with static and dynamic routes, to a given design requirement without supervision. Provide evidence that the system meets the design requirement.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Module Specifications: Networks and Securing Networks

KSB 28

S11 Analyse security requirements (functional and non-functional security requirements that may be presented in a security case) against other design requirements (e.g. usability, cost, size, weight, power, heat, supportability etc.), given for a given system or product. Identify conflicting requirements and propose, with reasoning, resolution through appropriate trade-offs.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Module Specifications: Networks, Employability Skills, Securing Networks and Project

KSB 29

S12 Design and build, systems in accordance with a security case within broad but generally welldefined parameters. This should include selection and configuration of typical security hardware and software components. Provide evidence that the system has properly implemented the security controls required by the security case.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Module Specifications: Employability Skills, Securing Networks and Project

KSB 30

S13 Write program code or scripts to meet a given design requirement in accordance with employers' coding standards.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Module Specifications: Linux and Scripting and Employability Skills

KSB 31

S14 Design systems employing encryption to meet defined security objectives. Develop and implement a plan for managing the associated encryption keys for the given scenario or system.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered? Module Specifications: Principles of Cyber Security, Ethics and Ethical Hacking and Project

KSB 32

S15 Use tools, techniques and processes to actively prevent breaches to digital system security.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Module Specifications: Employability Skills and Ethics and Ethical Hacking

KSB 33

S16 Conduct cyber-risk assessments against an externally (market) recognised cyber security standard using a recognised risk assessment methodology.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Module Specifications: Principles of Cyber Security, Employability Skills and Ethics and Ethical Hacking

KSB 34

S17 Identify cyber security threats relevant to a defined context.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered? Module Specifications: Principles of Cyber Security, Employability Skills and Ethics and Ethical Hacking

KSB 35

S18 Develop information security policies or processes to address a set of identified risks, for example from security audit recommendations.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered? Module Specifications: Professional Development, Employability Skills and Project

KSB 36

S19 Develop information security policies within a defined scope to take account of legislation and regulation relevant to cyber security.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered? Module Specifications: Professional Development, Linux and Scripting, Computer Forensics and Project

KSB 37

S20 Take an active part in a security audits against recognised cyber security standards, undertake gap analysis and make recommendations for remediation.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered? Module Specifications: Principles of Cyber Security, Employability Skills and Project

KSB 38

S21 Develop plans for incident response for approval within defined governance arrangements for incident response.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Module Specifications: Principles of Cyber Security, Professional Development, Employability Skills and Project

KSB 39

S22 Develop plans for local business continuity for approval within defined governance arrangements for business continuity.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Module Specifications: Principles of Cyber Security, Professional Development, Employability Skills and Project

KSB 40

S23 Assess security culture using a recognised approach.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Module Specifications: Principles of Cyber Security, Professional Development, Employability Skills and Project

KSB 41

S24 Design and implement a simple 'security awareness' campaign to address a specific aspect of a security culture.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Module Specifications: Principles of Cyber Security, Professional Development, Employability Skills and Project

KSB 42

S25 Integrate and correlate information from various sources (including log files from different sources, digital system monitoring tools, Secure Information and Event Management (SIEM) tools, access control systems, physical security systems) and compare to known threat and vulnerability data to form a judgement based on evidence with reasoning that the anomaly represents a digital system security breach.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Module Specifications: Networks, Principles of Cyber Security and Computer Forensics

KSB 43

S26 Recognise anomalies in observed digital system data structures (including by inspection of network packet data structures) and digital system behaviours (including by inspection of protocol behaviours) and by inspection of log files and by investigation of alerts raised by automated tools including SIEM tools.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Module Specifications: Networks, Principles of Cyber Security, Computer Forensics and Securing Networks

KSB 44

S27 Accurately, objectively and concisely record and report the appropriate cyber security information, including in written reports within a structure or template provided.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Module Specifications: Principles of Cyber Security, Professional Development and Project

KSB 45

S28 Configure digital system monitoring and analysis tools (e.g. SIEM tools), taking account of threat & vulnerability intelligence, indicators of compromise.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered? Module Specifications: Principles of Cyber Security, Computer Forensics and Ethics and Ethical Hacking

KSB 46

S29 Undertake root cause analysis of events and make recommendations to reduce false positives and false negatives.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Module Specifications: Principles of Cyber Security, Professional Development and Computer Forensics

KSB 47

S30 Manage local response to non-major incidents in accordance with a defined procedure.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Module Specifications: Principles of Cyber Security, Professional Development and Computer Forensics

KSB 48

B1 Logical - Applies logical thinking, for example, uses clear and valid reasoning when making decisions related to undertaking the work instructions.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered? Module Specifications: Professional Development, Employability Skills and Project

KSB 49

B2 Analytical - working with data effectively to see patterns, trends and draw meaningful conclusions.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered? Module Specifications: Professional Development, Employability Skills and Project

KSB 50

B3 Works independently and takes responsibility. For example, works diligently regardless of how much they are being supervised, and stays motivated and committed when facing challenges.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered? Module Specifications: Professional Development, Employability Skills and Project

KSB 51

B4 Shows initiative, being resourceful when faced with a problem and taking responsibility for solving problems within their own remit.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered? Module Specifications: Professional Development, Employability Skills and Project

KSB 52

B5 Thorough & organised. For example uses their time effectively to complete work to schedule and takes responsibility for managing their own work load and time.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Module Specifications: Professional Development, Employability Skills and Project

KSB 53

B6 Works effectively with a wide range of people in different roles, internally and externally, with a regard to inclusion & diversity policy.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Module Specifications: Professional Development, Employability Skills and Project

KSB 54

B7 Communicates effectively in a wide variety of situations for example contributing effectively to meetings and presenting complex information to technical and non-technical audiences.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered? Module Specifications: Professional Development, Employability Skills and Project

KSB 55

B8 Maintains a productive, professional and secure working environment.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Module Specifications: Professional Development, Employability Skills and Project

KSB 56

B9 Creative - taking a variety of perspectives, taking account of unpredictable adversary and threat behaviours and approaches, bring novel and unexpected solutions to address cyber security challenges.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered? Module Specifications: Principles of Cyber Security, Professional Development, Employability Skills and Project

KSB 57

B10 Problem Solving - Identifies issues quickly, solves complex problems and applies appropriate solutions. Dedicated to finding the true root cause of any problem and find solutions that prevent recurrence.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Module Specifications: Principles of Cyber Security, Professional Development, Employability Skills and Project

Network engineer

Network engineer

Knowledge, skills and behaviours coverage within the qualification

Please identify which knowledge, skill and behaviour statements from the occupational standard are covered within the qualification.

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KSBgenerator

KSB

KSB 1

K1 The causes and consequences of network and IT infrastructure failures.

Is the statement covered within the qualification? Fully covered Where within the qualification is the statement covered? Modules: Networks Professional Development Securing Networks

KSB 2

K2 The architecture of typical IT systems, including hardware, OS, server, virtualisation, voice, cloud, and applications.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Securing Networks

KSB 3

K3 The techniques for systems performance and optimisation.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules:

Networks Securing Networks

KSB 4

K4 Diagnostic techniques and tools to interrogate and gather information regarding systems performance.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Professional Development Computer Forensics

KSB 5

K5 Organizational procedures to deal with recording information effectively and in line with protocols.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Modules: Principles of Databases

KSB 6

K6 Service Level Agreements (SLAs) and their application to delivering network engineering activities in line with contractual obligations and customer service.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Professional Development Employability Skills Project

KSB 7

K7 Their role in Business Continuity and Disaster Recovery.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered? Modules: Professional Development Employability Skills

KSB 8

K8 The purposes and uses of ports and protocols.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Securing Networks

KSB 9

K9 Devices, applications, protocols, and services at their appropriate OSI and/or TCP/IP layers.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Securing Networks

KSB 10

Page 19 of 32

K10 The concepts and characteristics of routing and switching.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Securing Networks

KSB 11

K11 The characteristics of network topologies, types, and technologies.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Securing Networks

KSB 12

K12 Wireless technologies and configurations.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Securing Networks

KSB 13

K13 Cloud concepts and their purposes.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Securing Networks

KSB 14

K14 Functions of network services.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Modules: Networks Securing Networks

KSB 15

K15 The different types of network maintenance.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Securing Networks

KSB 16

K16 How current legislation relates to or impacts occupation.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Modules: Networks Professional Development Employability Skills Securing Networks

KSB 17

K17 Troubleshooting methodologies for network and IT infrastructure.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Computer Forensics Securing Networks

KSB 18

K18 How to integrate a server into a network.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Securing Networks

KSB 19

K19 The types of security threats to networks and IT infrastructure assets.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Modules: Networks Principles of Cyber Security Computer Forensics Securing Networks

KSB 20

K20 How to use tools to automate network tasks.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Computer Forensics Securing Networks

KSB 21

K21 Approaches to change management.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Modules: Networks Professional Development Employability Skills Project

KSB 22

S1 Apply the appropriate tools and techniques when securely operating and testing Networks.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Computer Forensics Ethics and Ethical Hacking Securing Networks

KSB 23

S2 Install and configure the elements required to maintain and manage a secure Network.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Computer Forensics Securing Networks

KSB 24

S3 Implement techniques to monitor and record systems performance in line with defined specifications.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Modules: Networks Professional Development Employability Skills

KSB 25

S4 Maintain security and performance of the system against known and standard threats.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Principles of Cyber Security Ethics and Ethical Hacking Securing Networks

KSB 26

S5 Apply the appropriate tools and techniques to identify systems performance issues.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Employability Skills

KSB 27

S6 Apply the appropriate tools and techniques to gather information to troubleshoot issues and isolate, repair or escalate faults.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Modules: Networks Professional Development Employability Skills

KSB 28

S7 Communicate outcomes of tasks and record in line with organisational procedures and SLAs including adherence to good customer service standards.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Professional Development Employability Skills

KSB 29

S8 Upgrade, apply and test components to systems configurations ensuring that the system meets the organisation's requirements and minimises downtime. This should include backup processes.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Professional Development Employability Skills Project

KSB 30

S9 Record task details whether face-to-face, remote or in writing in line with ogranisational requirements.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Professional Development **Employability Skills**

KSB 31

S10 Interpret information received from a manager, customer or technical specialist and accurately implement the defined requirements.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Professional Development Employability Skills

KSB 32

S11 Monitor, identify and implement required maintenance procedures.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Modules: Networks Professional Development Employability Skills Project

KSB 33

S12 Implement techniques to optimise systems performance in line with defined specifications.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Professional Development Employability Skills

KSB 34

S13 Organise and prioritise clients/stakeholders' requests in line with SLAs and organization processes.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Professional Development Employability Skills

KSB 35

S14 Explain their job role within the business context to stakeholders to enable a clear understanding on both sides of what their remit is and convey technical constraints in appropriate language considering accessibility and diversity implications.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Professional Development Employability Skills

KSB 36

S15 Operate securely and apply the appropriate process, policies, and legislation within their business responsibilities.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Professional Development Employability Skills Project

KSB 37

S16 Communicate with a range of stakeholders taking into consideration of organisations cultural awareness and technical ability.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Professional Development Employability Skills Project

KSB 38

S17 Apply the appropriate level of responsibility when planning and prioritizing work tasks.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Professional Development Employability Skills Project

KSB 39

S18 Apply the relevant numerical skills (Binary, dotted decimal notation) required to meet the defines specifications.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Professional Development Employability Skills Project

KSB 40

S19 Ensure compliance of network engineering outputs with change management processes.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Modules: Networks Professional Development Employability Skills Project

KSB 41

S20 Select the appropriate tools and comply with organisation policies and processes when upgrading systems.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Networks Professional Development Employability Skills Project

KSB 42

B1 Work independently and demonstrate initiative being resourceful when faced with a problem and taking responsibility for solving problems within their own remit.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Modules: Professional Development Employability Skills Project

KSB 43

B2 Work securely within the business.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Professional Development Employability Skills Project

KSB 44

B3 Work within the goals, vision, and values of the organisation.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Professional Development Employability Skills Project

KSB 45

B4 Take a wider view of the strategic objectives of the tasks/ projects they are working on including the implications for accessibility by users and diversity.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Professional Development Employability Skills Project

KSB 46

B5 Works to meet or exceed customers' requirements and expectations.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules:

Professional Development Employability Skills Project

KSB 47

B6 Identifies issues quickly, investigates and solves complex problems and applies appropriate solutions. Ensures the true root cause of any problem is found and a solution is identified which prevents recurrence.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Professional Development Employability Skills Project

KSB 48

B7 Committed to continued professional development to ensure growth in professional skill and knowledge.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered?

Modules: Professional Development Employability Skills Project

KSB 49

B8 Work effectively under pressure showing resilience.

Is the statement covered within the qualification? Fully covered

Where within the qualification is the statement covered? Modules: Professional Development Employability Skills Project

Additional occupationally relevant content

Additional occupationally relevant content

Item 1

As well as the content aligned to the knowledge, skills and behaviours in the occupational standard, the qualification can include additional occupationally relevant content which is deemed of value to

employers. Awarding bodies are asked to justify any content that does not directly align to the occupational standard, using evidence from employers.

Content should be identified at a unit or modular level and each item should be added separately by using the Add Item button. If the qualification does not include any additional content, please leave this section blank.

Unit or module containing additional content None

Please give a short description of the additional content

Where within the qualification is the additional content covered?

Please provide an explanation of how the content is relevant to the occupation, including evidence from employers that supports its inclusion in the qualification.

Assessment methods

Assessment methods

Please confirm that the assessment covers all of the content relevant to the knowledge, skills and behaviours in the occupational standard. Yes

Please outline the methods used to assess the content and provide a rationale for why these methods are valid for the qualification.

Employability is built into the programme in core modules. Future employment is entrenched within the programme and practical modules are very much focused on the development of professional portfolio pieces that can support progression in to employment.

Wider technical employability skills are embedded in practical modules, the assessments have been selected to reflect industry practice. These projects will focus on solving identified business problems with a technical solution that is relevant to the specific programme discipline.

Small team projects have been designed to simulate industry practice in the development of team based business solutions. Identifying roles and undertaking these roles in a team setting are essential skills and key to the overall teaching strategy, in respect of preparing students for employment.

There is also opportunity for interdisciplinary work to take place with collaboration between Computer games students a possibility. The L5 project module is also part of the Computer Games courses and is planned to at the same time as the project module on the Computing courses.

A broad range of skills and knowledge are needed in the Cyber Security and digital sectors and assessments are tailored to the particular task being undertaken. Assessed tasks include the development of computing solutions for real-world problems, the application of theory to problem solving and practical problems, team work, project work and the communication of ideas and concepts through reports and

presentations. The assessment of these tasks are guided by programme and module learning outcomes.

Each module will have two assessment components. Programme learning outcomes will be assessed twice giving ample opportunity for students to meet the specified learning outcomes of each task and will also ensure that module learning are only assessed once.

Assignments tasks will be managed across the academic year ensuring there is sufficient time between assessments to support the completion of the programme.

The course promotes independent learning through the promotion of CPD when learning new software and when researching and applying new theories and concepts. Students are encouraged to adopt an analytical approach to their engagement with Cyber Security, transitioning from user to developer and analyst by applying a critical eye to key computing skills development and independently applying new found approaches to their own computing solutions and concepts. Greater autonomy is expected as students move from L4 to L5 of the programme and this is supported through the exploration, experimentation, development and application of key theories and practice in their coursework.

Formative assessments usually carry no weighting but are critical for the student's development and can be useful preparation for the related summative assessment. Formative assessment can take the form of a group or individual critique, and informal peer assessment through peer group discussions.

Formative assessment is a part of the individual tutorial system, featured in every module, and feedback is given verbally or in written format depending on the module. Each assessment is aligned with its intended learning outcomes and learning activities, so it is clear what is being assessed.

Formative assessment is a key feature of the first year and will be the focus of group tutorials during the induction period to familiarise students with the formative feedback strategy.

Summative feedback will be given in written format using standard programme feedback forms. The feedback will discuss the final grade decision and how it was reached and also offer feedforward style feedback that will identify areas for improvement and suggest approaches that can be adopted in future assessments. This will help students to identify areas for improvement, and of current strengths which are to be developed.

All feedback will be presented in line with the institution's policy ensuring timely feedback is given to students for each assessment.

Employer engagement

Employer engagement

Please describe how employers and industry practitioners were consulted throughout the development of the qualification, including:

- the process of identifying and recruiting relevant employers
- how employers were involved in the development, review and validation of the qualification

materials.

Please describe how employers and industry practitioners were consulted throughout the development of the qualification.

Consultation with employers and industry practitioners is an essential requirement in the development of all of our higher education qualifications. This starts in the planning phase as demonstrated in the s3 of the programme proposal document (attached). The course team must demonstrate that the content and assessment methods iare current, forward looking and reflect the needs of employers. The course team consulted with employers regarding the structure and content of the course including which skills employers were looking for.

As part of the validation process we also have an external employer and external academic on the validation panel (see attached Validation Minutes). We find that this externality is invaluable in the development and approval of our awards as it ensures that they are industry fit and also meeting academic standards.