



**Institute for Apprenticeships
& Technical Education**

Higher technical qualification submission form

Awarding body information

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 Software Development

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?

Software developer/Level: 4

Software tester/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)

Software developer

Software developer

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 All stages of the software development life cycle (what each stage contains, including the inputs and outputs).

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:
Principles of Programming
Software Development
Mobile App Development

KSB 2

K2 Roles and responsibilities within the software development lifecycle (who is responsible for what).

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:
Professional Development
Employability Skills
Project

KSB 3

K3 The roles and responsibilities of the project life cycle within your organisation, and your role.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:
Professional Development
Employability Skills

KSB 4

K4 How best to communicate using the different communication methods and how to adapt appropriately to different audiences.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:
Professional Development
Employability Skills

KSB 5

K5 The similarities and differences between different software development methodologies, such as agile and waterfall.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

KSB 6

K6 How teams work effectively to produce software and how to contribute appropriately.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Programming
Professional Development
Software Development
Employability Skills

KSB 7

K7 Software design approaches and patterns, to identify reusable solutions to commonly occurring problems.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Programming
Software Development
Mobile App Development
Advanced Web Development

KSB 8

K8 Organisational policies and procedures relating to the tasks being undertaken, and when to follow them. For example, the storage and treatment of GDPR sensitive data.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Professional Development
Employability Skills

KSB 9

K9 Principles of algorithms, logic and data structures relevant to software development for example: arrays, stacks, queues, linked lists, trees, graphs, hash tables, sorting algorithms, searching algorithms, critical sections and race conditions.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Databases

Principles of Programming

Software Development

Mobile App Development

Advanced Web Development

KSB 10

K10 Principles and uses of relational and non-relational databases

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Databases

Advanced Web Development

KSB 11

K11 Software designs and functional/technical specifications

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Programming

Software Development

KSB 12

K12 Software testing frameworks and methodologies

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Databases

Software Development

Software Testing

KSB 13

S1 Create logical and maintainable codes.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

KSB 14

S2 Develop effective user interfaces.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Mobile App Development

Advanced Web Development

KSB 15

S3 Link code to data sets.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Databases

Mobile App Development

Advanced Web Development

KSB 16

S4 Test code and analyse results to correct errors found using unit testing.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Programming

Software Development

Software Testing

KSB 17

S5 Conduct a range of test types, such as Integration, System, User Acceptance, Non-Functional, Performance and Security testing.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Programming

Software Development

KSB 18

S6 Identify and create test scenarios.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Programming

Software Development

Software Testing

KSB 19

S7 Apply structured techniques to problem solving, can debug code and can understand the structure of programmes to identify and resolve issues.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Programming

Software Development

Software Testing

KSB 20

S8 Create simple software designs to effectively communicate understanding of the program.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Programming

Software Development

Mobile App Development

KSB 21

S9 Create analysis artefacts, such as use cases and/or user stories.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Databases

Professional Development

Employability Skills

KSB 22

S10 Build, manage and deploy code into the relevant environment.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Programming

Software Development

KSB 23

S11 Apply an appropriate software development approach according to the relevant paradigm (for example object oriented, event driven or procedural).

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Mobile App Development

Advanced Web Development

Project

KSB 24

S12 Follow software designs and functional/technical specifications.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Mobile App Development

Project

KSB 25

S13 Follow testing frameworks and methodologies.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Software Testing

KSB 26

S14 Follow company, team or client approaches to continuous integration, version and source control.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Employability Skills

Project

KSB 27

S15 Communicate software solutions and ideas to technical and non-technical stakeholders.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Professional Development

Software Development

Employability Skills

KSB 28

S16 Apply algorithms, logic and data structures.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Databases

Principles of Programming

Advanced Web Development

KSB 29

S17 Interpret and implement a given design whilst remaining compliant with security and maintainability requirements.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Cyber Security

Principles of Programming

Software Development

KSB 30

B1 Works independently and takes responsibility. For example, has a disciplined and responsible approach to risk, 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?

Modules:

Professional Development

Employability Skills

Project

KSB 31

B2 Applies logical thinking. For example, uses clear and valid reasoning when making decisions related to undertaking work instructions.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Professional Development

Employability Skills

Project

KSB 32

B3 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?

Modules:

Professional Development

Employability Skills

Project

KSB 33

B4 Works collaboratively with a wide range of people in different roles, internally and externally, with a positive attitude to inclusion & 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 34

B5 Acts with integrity with respect to ethical, legal and regulatory ensuring the protection of personal data, safety and security.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Professional Development

Employability Skills

Project

KSB 35

B6 Shows initiative for solving problems within their own remit, being resourceful when faced with a problem to solve.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Professional Development

Employability Skills

Project

KSB 36

B7 Communicates effectively in a variety of situations to both a technical and nontechnical audience.

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

B8 Shows curiosity to the business context in which the solution will be used, displaying an inquisitive approach to solving the problem. This includes the curiosity to explore new opportunities, and techniques; the tenacity to improve methods and maximise performance of the solution; and creativity in their approach to solutions.

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

B9 Demonstrates creativity and tenacity in their approach to solutions and the methods used to come to a solution for example, sees the task through to the end by devising new solutions and despite obstacles and problems along the way.

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

B10 Committed to continued professional development.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Professional Development
Employability Skills
Project

Software tester

Software tester

Knowledge, skills and behaviours coverage within the qualification

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standards are covered within the qualification.

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KSBgenerator

KSB

KSB 1

K1 The relationship between testing and quality assurance and how testing contributes to higher quality.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Professional Development

Software Development

Software Testing

KSB 2

K2 The difference between error, defect, and failure including the distinction between the root cause of a defect and its effects.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Software Testing

Mobile App Development

KSB 3

K3 The impact of context on the test process including the activities, tasks and work products that support the test process.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Programming

Software Development

Software Testing

KSB 4

K4 The need for traceability between the requirements/test basis and the test work products.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Software Testing

KSB 5

K5 The principles underpinning the psychology of testing including how the required mindset differs from the development mindset, and how this can influence success of software testing activities.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Software Testing

KSB 6

K6 The importance of accuracy and clear documentation of software tests and defects.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Programming

Software Development

Software Testing

Employability Skills

KSB 7

K7 The relationship between test activities and software development activities in the Software Development Lifecycle.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Software Testing

KSB 8

K8 The application of testing across different recognised software development methodologies (sequential and iterative).

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Software Testing

Mobile App Development

KSB 9

K9 The range and features of software test types within the broad categories of Functional, Non-Functional, White Box/Structural and Change-related Testing.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Software Testing

Mobile App Development

KSB 10

K10 The objectives and approaches for testing at different Test Levels (such as Unit Testing, Component Integration Testing, System Testing, System Integration Testing and User Acceptance Testing).

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Software Testing

KSB 11

K11 The role of static testing techniques and the review process in early defect detection.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Programming

Software Development

Software Testing

KSB 12

K12 The characteristics of Black Box, White Box and Experience-based Test Techniques.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Software Testing

Project

KSB 13

K13 The application of common Black Box Techniques to derive test conditions and test cases (Equivalence Partitioning, Boundary Value Analysis, Decision Table Testing and State Transition Testing).

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Software Testing

Project

KSB 14

K14 The role of software testing within the context of project and product risk reduction in the systems development life cycle.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Software Testing

Project

KSB 15

K15 The defect management process.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Software Testing

KSB 16

K16 The typical metrics used to support the monitoring and control of testing.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Software Testing

Project

KSB 17

K17 The classification of tools to support testing.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Software Testing

Project

KSB 18

K18 The role of test automation in the context of the software development lifecycle.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Software Testing

Project

KSB 19

K19 The need for conformance to specific industry standards where appropriate (such as GDPR, health informatics, safety critical, etc.) related to software testing.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Professional Development

Software Testing

Employability Skills

KSB 20

K20 Where Software Testers fit within the wider team and the roles and responsibilities that others play.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Professional Development

Employability Skills

KSB 21

K21 The characteristics of software architecture that impact on software testing in the development lifecycle.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Programming

Software Development

KSB 22

K22 The core testing behaviours, skills and tools that are common to developers, testers, and multi-skilled roles in development lifecycles.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Programming

Software Development

Software Testing

Employability Skills

KSB 23

K23 The typical security vulnerabilities that should be addressed by testing in general and specifically by penetration testing.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Networks

Principles of Cyber Security

KSB 24

S1 Apply static test techniques.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Programming

Software Development

Software Testing

Mobile App Development

KSB 25

S2 Apply Black Box test techniques such as Equivalence Partitioning, Boundary Value Analysis, Decision Table Testing and State Transition Testing.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Programming

Software Development

Software Testing

KSB 26

S3 Analyse test objectives and requirements/test basis to define test scope and coverage criteria.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Mobile App Development

Project

KSB 27

S4 Use tools to automate, manage or support any test activity.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Programming

Software Development

KSB 28

S5 Apply a regression strategy including selection of tests, maintenance of regression suites and identifying tests suitable for automation.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Principles of Programming

Software Development

Software Testing

KSB 29

S6 Use defect tracking tools.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Testing

KSB 30

S7 Adapt and apply testing activities according to industry standard development methodologies (sequential and iterative).

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Software Testing

Employability Skills

Project

KSB 31

S8 Apply the range of different software test types within the broad categories of Functional, Non-Functional (Security, Performance & Usability), and White Box/Structural Testing.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Software Testing

KSB 32

S9 Apply and support testing at different Test Levels appropriate to the Software Development Lifecycle (such as Unit Testing, Component Integration Testing, System Testing, System Integration Testing and User Acceptance Testing), taking into account the fundamentals of testing.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Development

Software Testing

Mobile App Development

KSB 33

S10 Conform to specific industry standards where appropriate (such as GDPR, health informatics, safety critical, etc.) related to software testing.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Software Testing

Employability Skills

Project

KSB 34

S11 Maintain up to date knowledge of technological developments in the field of Software Testing.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:

Professional Development

Employability Skills

KSB 35

S12 Record and interpret test progress and results, communicating test status to the relevant stakeholders.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:
Professional Development
Employability Skills

KSB 36

S13 Design and follow tests to achieve coverage criteria.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:
Software Testing
Employability Skills
Project

KSB 37

B1 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?

Modules:
Professional Development
Employability Skills

KSB 38

B2 Works independently and takes responsibility. For example, disciplined and responsible approach to risk, works diligently regardless of how much they are being supervised, accepts responsibility for managing their own time and workload 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?

Modules:
Professional Development
Employability Skills

KSB 39

B3 A problem solving mindset within their own remit, being inquisitive and resourceful when faced with a problem to solve. Applies appropriate solutions. ensuring 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

KSB 40

B4 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?

Modules:
Professional Development
Employability Skills
Project

KSB 41

B5 Analytical - uses informal and formal techniques to deconstruct a scenario or test basis to identify tests that will demonstrate software and systems are fit for purpose.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Modules:
Professional Development
Employability Skills
Project

KSB 42

B6 Works collaboratively with a wide range of people in different roles, internally and externally, with a positive attitude to inclusion & 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 43

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

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

None

Where within the qualification is the additional content covered?

None

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

None

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 are 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.