



**Institute for Apprenticeships
& Technical Education**

Higher technical qualification submission form

Awarding body information

Awarding body information

What is the name of the awarding body?

Pearson Education Ltd

Is the awarding body a higher education provider?

No

Is the awarding body on the Ofqual 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?

Pearson BTEC Level 5 Higher National Diploma in Computing

Is the qualification on the Ofqual register?

Yes

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?

Business analyst/Level: 4

Software developer/Level: 4

Software tester/Level: 4

Data analyst/Level: 4

Network engineer/Level: 4

Cyber-security technologist/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)

Upload

Commissioned Brochure - Print.pdf

HND_L45_Comp_RQF_Specification_Iss6 (2021-22).pdf

HND_L45_Comp_RQF_Units_Iss6 (2021-22).pdf

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 2, Learning Outcomes 1, 2, 3 and 4

Unit 5, Learning Outcome 2

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 2, Learning Outcome 2

Unit 5, Learning Outcome 1
Unit 31, Learning Outcome 3

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 5, Learning Outcome 1 and 4

Unit 17, Learning Outcome 2

Unit 30, Learning Outcome 2 and 3

Unit 31, Learning Outcome 3 and 4

Unit 32, Learning Outcome 1, 2, 3 and 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 5, Learning Outcome 1 and 4

Unit 30, Learning Outcome 3

Unit 31, Learning Outcome 1

Unit 32, Learning Outcome 1

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 5, Learning Outcome 1 and 4

Unit 32, Learning Outcome 1 and 3

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 5, Learning Outcome 3 and 4

Unit 32, Learning Outcome 2

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 31, Learning Outcome 1 and 3

Unit 32, Learning Outcome 1 and 2

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 4, Learning Outcome 2

Unit 5, Learning Outcome 3 and 4

Unit 17, Learning Outcome 4

Unit 31, Learning Outcome 2

Unit 32, Learning Outcome 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 6, Learning Outcome 1

Unit 17, Learning Outcome 4

Unit 31, Learning Outcome 2

Unit 32, Learning Outcome 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 5, Learning Outcomes 2, 3 and 4

Unit 6, Learning Outcomes 1 and 2

Unit 32, Learning Outcome 3

KSB 11

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

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 32, Learning Outcome 1

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 2, Learning Outcome 3

Unit 5, Learning Outcomes 1, 2, 3 and 4

Unit 31, Learning Outcome 3

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 30, Learning Outcomes 1, 2, 3 and 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 5, Learning Outcomes 3 and 4
Unit 31, Learning Outcome 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 5, Learning Outcomes 1, 2, 3 and 4
Unit 32, Learning Outcomes 1, 2, 3 and 4

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?

Partially covered

Where within the qualification is the statement covered?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 2, Learning Outcomes 2 and 3
Unit 5, Learning Outcome 2
Unit 9, Learning Outcomes 1 and 3

Please provide an explanation for the omission or partial coverage of this statement from the

qualification.

This KSB is covered, although the units don't stipulate individual components. There is clearly over 60% coverage of this knowledge point.

KSB 17

K17 Programming or scripting languages.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 1, Learning Outcome 2, 3 and 4

Unit 17, Learning Outcome 3

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 5, Learning Outcome 3

Unit 31, Learning Outcome 1, 3 and 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 5, Learning Outcomes 1, 2, 3 and 4

Unit 30, Learning Outcome 3

Unit 32, Learning Outcomes 2 and 3

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 qualification?

Fully covered

Where within the qualification is the statement covered?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 5, Learning Outcomes 1, 2, 3 and 4
Unit 32, Learning Outcome 1

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 qualification?

Fully covered

Where within the qualification is the statement covered?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 5, Learning Outcome 3
Unit 31, Learning Outcome 4
Unit 32, Learning Outcomes 2 and 3

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 5, Learning Outcomes 3 and 4
Unit 32, Learning Outcomes 1 and 2

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 6, Learning Outcomes 2 and 3
Unit 17, Learning Outcome 1
Unit 32, Learning Outcome 3

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 5, Learning Outcome 4

Unit 31, Learning Outcome 2

Unit 32, Learning Outcome 1

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 2, Learning Outcome 4

Unit 5, Learning Outcome 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 5, Learning Outcome 3

Unit 31, Learning Outcome 4

Unit 32, Learning Outcome 3

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 2, Learning Outcomes 3 and 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 2, Learning Outcome 4

Unit 5, Learning Outcome 3

Unit 6, Learning Outcome 1

Unit 32, Learning Outcomes 2 and 3

KSB 29

S12 Design and build, systems in accordance with a security case within broad but generally well-defined 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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 2, Learning Outcomes 3 and 4

Unit 5, Learning Outcome 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 1, Learning Outcomes 1 and 3

Unit 17, Learning Outcomes 3 and 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 30, Learning Outcomes 1, 2, 3 and 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 2, Learning Outcome 4

Unit 5, Learning Outcome 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 5, Learning Outcomes 3 and 4

Unit 31, Learning Outcomes 2 and 4

Unit 32, Learning Outcomes 2, 3 and 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 5, Learning Outcomes 1 and 3

Unit 6, Learning Outcome 1

Unit 31, Learning Outcome 4

Unit 32, Learning Outcomes 2 and 3

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 5, Learning Outcome 4

Unit 32, Learning Outcome 2

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 5, Learning Outcome 4
Unit 32, Learning Outcome 2, 3 and 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 5, Learning Outcome 3
Unit 31, Learning Outcomes 3 and 4
Unit 32, Learning Outcome 3

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 5, Learning Outcome 3
Unit 31, Learning Outcomes 2, 3 and 4
Unit 32, Learning Outcomes 1 and 2

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 5, Learning Outcomes 3 and 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 5, Learning Outcome 3

Unit 32, Learning Outcome 3

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?

Partially covered

Where within the qualification is the statement covered?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 3, Learning Outcome 1

Unit 5, Learning Outcome 3

Please provide an explanation for the omission or partial coverage of this statement from the qualification.

The design and implementation of a simple 'security awareness' campaign is not a specific 'requirement' in the unit but all relevant skills are covered (communication, assessing culture etc).

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 5, Learning Outcome 4

Unit 31, Learning Outcomes 3 and 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 2, Learning Outcome 4

Unit 5, Learning Outcome 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 2, Learning Outcome 4

Unit 3, Learning Outcome 1

Unit 5, Learning Outcome 4

Unit 31, Learning Outcomes 3 and 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 2, Learning Outcome 4

Unit 5, Learning Outcome 4

Unit 31, Learning Outcome 3

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 3, Learning Outcome 2

Unit 31, Learning Outcomes 3 and 4

KSB 47

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

Is the statement covered within the qualification?

Partially covered

Where within the qualification is the statement covered?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 3, Learning Outcome 3

Unit 5, Learning Outcomes 3 and 4
Unit 31, Learning Outcome 3

Please provide an explanation for the omission or partial coverage of this statement from the qualification.

The theoretical knowledge underpinning this skill is covered. The act of 'managing' the response can only be done in a workplace situation and is therefore unsuitable for a classroom based qualification.

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 3, Learning Outcome 2

Unit 6, Learning Outcome 4

Unit 16, Learning Outcome 2

Unit 27, Learning Outcomes 2 and 3

Unit 31, Learning Outcome 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 2, Learning Outcome 2

Unit 6, Learning Outcome 1

Unit 16, Learning Outcomes 2 and 3

Unit 29, Learning Outcome 4

Unit 31, Learning Outcome 3

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 3, Learning Outcome 3

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 3, Learning Outcomes 1 and 2

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 3, Learning Outcome 1
Unit 6, Learning Outcomes 3 and 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 3, Learning Outcome 3
Unit 4, Learning Outcome 2
Unit 6, Learning Outcomes 2 and 3
Unit 16, Learning Outcome 3

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 3, Learning Outcome 1
Unit 6, Learning Outcome 3
Unit 16, Learning Outcome 3

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 3, Learning Outcomes 1, 2, 3 and 4

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 31, Learning Outcome 4

Unit 32, Learning Outcome 3

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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 2, Learning Outcome 4

Unit 3, Learning Outcome 2

Unit 31, Learning Outcomes 3 and 4

Data analyst

Data analyst

Knowledge, skills and behaviours coverage within the qualification

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KSBgenerator

KSB

KSB 1

K1 Current relevant legislation and its application to the safe use of data.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 5, Learning Outcome 3

KSB 2

K2 Organisational data and information security standards, policies and procedures relevant to data management activities.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 17, Learning Outcome 1

KSB 3

K3 Principles of the data life cycle and the steps involved in carrying out routine data analysis tasks.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 26, Learning Outcome 1

KSB 4

K4 Principles of data, including open and public data, administrative data, and research data.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 1

Unit 28, Learning Outcome 2

KSB 5

K5 The differences between structured and unstructured data.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 17, Learning Outcome 3

KSB 6

K6 The fundamentals of data structures, database system design, implementation and maintenance.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 4, Learning Outcomes 1 and 2

KSB 7

K7 Principles of user experience and domain context for data analytics.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 26, Learning Outcome 2

KSB 8

K8 Quality risks inherent in data and how to mitigate/resolve these.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 1

Unit 17, Learning Outcome 4

KSB 9

K9 Principal approaches to defining customer requirements for data analysis.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 4, Learning Outcomes 1 and 2

KSB 10

K10 Approaches to combining data from different sources.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 2

KSB 11

K11 Approaches to organisational tools and methods for data analysis.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 26, Learning Outcomes 1 and 2

KSB 12

K12 Organisational data architecture.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 4, Learning Outcome 1

Unit 17, Learning Outcome 1

KSB 13

K13 Principles of statistics for analysing datasets.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 25, Learning Outcome 2

Unit 26, Learning Outcome 2

KSB 14

K14 The principles of descriptive, predictive and prescriptive analytics.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 26, Learning Outcome 1

KSB 15

K15 The ethical aspects associated with the use of and collation of data.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 1

Unit 17, Learning Outcome 2

KSB 16

S1 Use data systems securely to meet requirements and in line with organisational procedures and legislation, including principles of Privacy by Design.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 4, Learning Outcome 2

Unit 5, Learning Outcome 3

KSB 17

S2 Implement the stages of the data analysis lifecycle.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 26, Learning Outcome 3

KSB 18

S3 Apply principles of data classification within data analysis activity.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 26, Learning Outcomes 1, 2 and 3

KSB 19

S4 Analyse data sets taking account of different data structures and database designs.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 4, Learning Outcome 1 and 2
Unit 26, Learning Outcome 3

KSB 20

S5 Assess the impact on user experience and domain context on the data analysis activity.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 4

KSB 21

S6 Identify and escalate quality risks in data analysis with suggested mitigation/resolutions as appropriate.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 1

Unit 17, Learning Outcome 4

KSB 22

S7 Undertake customer requirements analysis and implement findings in data analytics planning and outputs.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 2 and 3

Unit 28, Learning Outcome 2

KSB 23

S8 Identify data sources and the risks, challenges to combination within data analysis activity.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 26, Learning Outcome 3 and 4

KSB 24

S9 Apply organizational architecture requirements to data analysis activities.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 26, Learning Outcome 4

KSB 25

S10 Apply statistical methodologies to data analysis tasks.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 26, Learning Outcome 1, 2 and 3

KSB 26

S11 Apply predictive analytics in the collation and use of data.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 26, Learning Outcome 2 and 3

KSB 27

S12 Collaborate and communicate with a range of internal and external stakeholders using appropriate styles and behaviours to suit the audience.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 1

Unit 6, Learning Outcome 4

KSB 28

S13 Use a range of analytical techniques such as data mining, time series forecasting and modelling techniques to identify and predict trends and patterns in data.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 21, Learning Outcome 2

Unit 22, Learning Outcome 2

Unit 22, Learning Outcome 3

Unit 26, Learning Outcome 2

KSB 29

S14 Collate and interpret qualitative and quantitative data and convert into infographics, reports, tables, dashboards and graphs.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 1

Unit 26, Learning Outcome 2

Unit 26, Learning Outcome 3

KSB 30

S15 Select and apply the most appropriate data tools to achieve the best outcome.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 33, Learning Outcome 2 and 3

KSB 31

B1 Maintain productive, professional and secure working environment

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 3

KSB 32

B2 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?

Unit 3, Learning Outcome 2

KSB 33

B3 Works independently and collaboratively.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 1

KSB 34

B4 Logical and analytical.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 2

Unit 6, Learning Outcome 4

KSB 35

B5 Identifies issues quickly, enjoys investigating and solving complex problems and applies appropriate solutions. Has a strong desire to push to ensure 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?

Unit 3, Learning Outcome 2

KSB 36

B6 Demonstrates resilience by viewing obstacles as challenges and learning from failure.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 2 and 3

KSB 37

B7 Demonstrates an ability to adapt to changing contexts within the scope of a project, direction of the organisation or Data Analyst role.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 2 and 3

Business analyst

Business analyst

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

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KSBgenerator

KSB

KSB 1

K1 The definition of Business Analysis and the range of activities that constitute it.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 6, Learning Outcome 3

KSB 2

K2 The value of Business Analysis in enabling business improvement and delivering IT system changes.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 3
Unit 17, Learning Outcome 3

KSB 3

K3 The role of the Business Analyst, and its relationship with other roles on a business change initiative, including those with system development responsibility.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 3
Unit 7, Learning Outcome 1
Unit 17, Learning Outcome 3

KSB 4

K4 Business change and system development life cycles, including the use of appropriate methodologies and the impact of organisational culture and context.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 2, 3 and 4

Unit 7, Learning Outcomes 1, 2 and 3

KSB 5

K5 The principles, features and differences of waterfall and agile methodologies for project delivery and software development.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 2, 3 and 4

Unit 7, Learning Outcomes 1, 2 and 3

KSB 6

K6 The importance of effective communication and engagement with a range of stakeholders in relation to Business Analysis assignments.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 3

Unit 6, Learning Outcomes 2 and 4

KSB 7

K7 The purpose and value of quality assurance techniques.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 4, Learning Outcome 3

Unit 6, Learning Outcomes 2 and 3

KSB 8

K8 Approaches to conducting internal and external environmental analysis of an industry domain.

Is the statement covered within the qualification?

Partially covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 2

Please provide an explanation for the omission or partial coverage of this statement from the qualification.

Specific terminology of 'Internal and external environment' not used but the content is what would be covered when teaching this e.g. business processes, internal and external stakeholders etc

KSB 9

K9 The advantages and disadvantages of a range of investigative techniques.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 1 and 4

Unit 7, Learning Outcomes 3 and 4

KSB 10

K10 The purpose of process modelling and the importance of an organisational view of business processes.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 7, Learning Outcome 2

KSB 11

K11 Different approaches to document business processes including when it is most appropriate to use each.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 3

Unit 7, Learning Outcome 3

KSB 12

K12 Techniques to elicit requirements, including when it is most appropriate to use each.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 3

Unit 7, Learning Outcomes 2 and 3

Unit 17, Learning Outcome 1

KSB 13

K13 The importance of eliciting requirements rather than gathering solution descriptions.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 3

Unit 7, Learning Outcomes 2 and 3

Unit 17, Learning Outcome 1

KSB 14

K14 Approaches to categorise, validate and prioritise requirements.

Is the statement covered within the qualification?

Partially covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 3 and 4

Please provide an explanation for the omission or partial coverage of this statement from the qualification.

Prioritising and making/justifying recommendations, consideration of risk etc covered. No specific requirement to 'categorise' requirements.

KSB 15

K15 The importance of requirements management including change control.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 2

KSB 16

K16 A broad range of non-functional requirement areas, and the importance of including these within requirements engineering.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 3

KSB 17

K17 The importance of considering user experience, accessibility and usability requirements in the design of digital solutions.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 4, Learning Outcome 2

Unit 6, Learning Outcomes 2 and 3

KSB 18

K18 The value of data to an organisation, and how data needs are considered in business improvement.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 1

Unit 17, Learning Outcome 1

KSB 19

K19 The purpose and activities of the gap analysis process.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 3

Unit 7, Learning Outcome 1

KSB 20

K20 The role of the business analyst in facilitating business acceptance of changes.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 5, Learning Outcome 3

Unit 6, Learning Outcomes 2 and 3

KSB 21

K21 The different phases of testing of business and system changes.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 2

Unit 7, Learning Outcomes 1 and 3

KSB 22

K22 The importance and the principles of engaging internal and external stakeholders.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 2 and 4

KSB 23

K23 Techniques to support the identification and analysis of internal and external stakeholders.

Is the statement covered within the qualification?

Partially covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 2 and 4

Please provide an explanation for the omission or partial coverage of this statement from the qualification.

Coverage is implicit rather than explicit.

KSB 24

K24 The purpose and importance of business change impact assessment.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 2

Unit 7, Learning Outcomes 1 and 2

KSB 25

K25 The concepts of benefits realisation and management.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 2, 3 and 4

Unit 7, Learning Outcomes 1 and 2

KSB 26

K26 Legislation and industry standards relevant to the organisation and sector.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 5, Learning Outcome 3

Unit 6, Learning Outcome 2

Unit 17, Learning Outcome 2

KSB 27

K27 Data protection regulations and the importance of managing information and data in line with legislation and organisational policies.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 4, Learning Outcome 2

Unit 5, Learning Outcome 3

Unit 6, Learning Outcomes 2 and 3

KSB 28

K28 Technology and industry trends across the digital sector, and the opportunities these bring for business improvement and IT solutions.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 1 and 2

This unit is a Pearson-set unit - a theme is provided each year which is chosen to reflect a current theme or trend in the sector, therefore technology and industry trends are central to assessment for this unit

KSB 29

S1 Apply appropriate approaches to scope, plan and perform Business Analysis.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 1 and 3

Unit 7, Learning Outcome 3

KSB 30

S2 Communicate effectively in a variety of situations with a range of stakeholders.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 1

Unit 6, Learning Outcomes 2 and 3

Unit 17, Learning Outcome 3

KSB 31

S3 Apply a range of structured investigation techniques to a business situation.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 1, 2 and 3

KSB 32

S4 Produce an outline definition of a business situation using an appropriate technique.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 3

Unit 7, Learning Outcome 3

Unit 17, Learning Outcome 4

KSB 33

S5 Apply appropriate techniques to identify problems and opportunities within a business situation.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 3

Unit 7, Learning Outcome 3

Unit 17, Learning Outcome 4

KSB 34

S6 Support the identification and presentation of proposed actions to stakeholders to gain agreement for further analysis activity.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 3 and 4

KSB 35

S7 Apply appropriate techniques to analyse and document options and recommendations for change.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 3 and 4

Unit 7, Learning Outcome 3

KSB 36

S8 Elicit process information from stakeholders.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 3 and 4

Unit 7, Learning Outcome 3

KSB 37

S9 Model business processes using relevant techniques, standards, notation and software tools.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 7, Learning Outcomes 2 and 3

KSB 38

S10 Analyse business process models to identify opportunities for improvement.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 3

Unit 7, Learning Outcomes 2 and 3

KSB 39

S11 Produce models of redesigned business processes.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 3

Unit 7, Learning Outcomes 2 and 3

KSB 40

S12 Elicit requirements from stakeholders to identify business and user needs.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 3

Unit 7, Learning Outcomes 2 and 3

Unit 17, Learning Outcome 1

KSB 41

S13 Document clear functional and non-functional requirements in line with local standards.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 4, Learning Outcome 1

Unit 6, Learning Outcome 3

Unit 7, Learning Outcomes 2 and 3

KSB 42

S14 Analyse documented requirements to remove duplication, conflict and overlap.

Is the statement covered within the qualification?

Not covered

Please provide an explanation for the omission or partial coverage of this statement from the qualification.

Not covered at this level of specificity as this is a very narrow KSB. It is assumed and implied within the unit content that when submitting functional and non-functional requirements, conflict and overlaps would be removed, just as in any documentation which is produced as the result of multiple sources of input.

KSB 43

S15 Prioritise requirements using an appropriate prioritisation approach.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 3 and 4

KSB 44

S16 Validate requirements with stakeholders.

Is the statement covered within the qualification?

Partially covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 3 and 4

Unit 7, Learning Outcome 3

Please provide an explanation for the omission or partial coverage of this statement from the qualification.

This skill is included across multiple units. Projects/assignments are not always conducted in a workplace setting so there may not always be an opportunity to have a two-way interaction with real stakeholders.

KSB 45

S17 Support the establishment of requirements traceability.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 42, Learning Outcome 2

KSB 46

S18 Elicit business data needs from relevant sources.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 4, Learning Outcomes 1 and 2

Unit 6, Learning Outcomes 1, 2 and 3

Unit 17, Learning Outcomes 3 and 4

KSB 47

S19 Support the development of simple data models using relevant techniques, standards, notation and software tools.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 4, Learning Outcomes 1 and 2

Unit 6, Learning Outcome 1

Unit 17, Learning Outcomes 3 and 4

KSB 48

S20 Document current business situations to enable gap analysis and decision making.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 7, Learning Outcomes 1 and 3

KSB 49

S21 Support the development of models of future state business situations.

Is the statement covered within the qualification?

Partially covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 3 and 4

Please provide an explanation for the omission or partial coverage of this statement from the

qualification.

Underlying skills are developed but not referred to in exactly the same terms.

KSB 50

S22 Identify key differences between current and future business situations.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 3 and 4

Unit 7, Learning Outcome 3

KSB 51

S23 Identify actions required to move from the current to future business situation.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 3 and 4

Unit 7, Learning Outcome 3

KSB 52

S24 Define acceptance criteria for business and system changes.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 3 and 4

Unit 7, Learning Outcome 3

KSB 53

S25 Support business acceptance of business and system changes.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 3 and 4

KSB 54

S26 Apply relevant techniques to research and identify stakeholders.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 1, 2 and 3

KSB 55

S27 Analyse and document stakeholders' areas of interest and influence.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcomes 2 and 3

Unit 7, Learning Outcome 3

KSB 56

S28 Support the development of cost/benefit analysis for proposed business changes.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 3

Unit 7, Learning Outcome 3

Unit 17, Learning Outcomes 3 and 4

KSB 57

S29 Evaluate and document the key impacts on people, process, organisation, technology and information.

Is the statement covered within the qualification?

Partially covered

Where within the qualification is the statement covered?

Unit 6, Learning Outcome 4

Unit 7, Learning Outcome 3

Unit 17, Learning Outcome 4

Please provide an explanation for the omission or partial coverage of this statement from the qualification.

Evaluations of projects and aspects of projects against criteria is woven throughout most units. This has been mapped as partial as projects are often simulated which means actual impact in a real world environment cannot always be evaluated.

KSB 58

S30 Present information and concepts in a manner appropriate to the audience.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 1

Unit 6, Learning Outcome 4

KSB 59

B1 Act logically, analytically and objectively in a range of situations.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 2

KSB 60

B2 Apply creative thinking when problem solving.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 2

KSB 61

B3 Work independently and collaboratively.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 3

KSB 62

B4 Use own initiative and take responsibility appropriate to the role of Business Analyst.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 3

KSB 63

B5 Take a thorough and organised approach and plan analysis activities in line with business priorities.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 1

Unit 6, Learning Outcome 3

KSB 64

B6 Build and maintain positive working relationships with a range of people.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 3

KSB 65

B7 Use a range of methods of communication appropriate to the situation.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 1

Unit 6, Learning Outcome 4

KSB 66

B8 Maintain a productive, professional and secure working environment.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 3

KSB 67

B9 Aware of the wider business environment and own contribution to business objectives.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 4

Unit 6, Learning Outcome 2

Unit 17, Learning Outcomes 1 and 2

KSB 68

B10 Be comfortable and confident interacting with people from technical and non-technical backgrounds.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 1

Unit 6, Learning Outcome 4

KSB 69

B11 Tailor manner of presentation to be appropriate to the audience.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 1

Unit 6, Learning Outcome 4

KSB 70

B12 Work flexibly and effectively as part of a multidisciplinary team throughout the full lifecycle.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcomes 1 and 3

KSB 71

B13 Demonstrate commitment to continuous professional development in relation to Business Analysis and the digital sector.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 4

Network engineer

Network engineer

Knowledge, skills and behaviours coverage 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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:

Unit 2, Learning Outcome 4

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?

Unit 2, Learning Outcome 3

Unit 28, Learning Outcome 2

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?

Unit 2, Learning Outcome 4

Unit 27, Learning Outcome 4

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?

Unit 2, Learning Outcomes 3 and 4

Unit 27, Learning Outcome 4

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?

Unit 2, Learning Outcome 4

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?

Unit 2, Learning Outcome 4

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?

Unit 5, Learning Outcomes 3 and 4

Unit 29, Learning Outcome 2

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?

Unit 9, Learning Outcome 3

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?

Unit 9, Learning Outcome 3

KSB 10

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?

Unit 27, Learning Outcomes 1, 2 and 3

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?

Unit 27, Learning Outcome 1

KSB 12

K12 Wireless technologies and configurations.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 2, Learning Outcome 2

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?

Unit 28, Learning Outcomes 1 and 2

KSB 14

K14 Functions of network services.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 2, Learning Outcome 3

Unit 9, Learning Outcome 3

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?

Unit 9, Learning Outcome 4

Unit 27, Learning Outcome 4

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?

Unit 5, Learning Outcome 3

Unit 29, Learning Outcome 2

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?

Unit 27, Learning Outcome 4

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?

Unit 27, Learning Outcomes 2 and 3

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?

Unit 29, Learning Outcomes 1, 2, 3 and 4

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?

Unit 2, Learning Outcome 4

KSB 21

K21 Approaches to change management.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 5, Learning Outcome 3

Unit 6, Learning Outcomes 2 and 3

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?

Unit 5, Learning Outcome 4

Unit 29, Learning Outcome 3

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?

Unit 2, Learning Outcomes 3 and 4

Unit 29, Learning Outcome 3

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?

Unit 2, Learning Outcome 4

Unit 29, Learning Outcome 4

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?

Unit 29, Learning Outcome 3

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?

Unit 29, Learning Outcome 4

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?

Unit 29, Learning Outcome 3

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?

Unit 2, Learning Outcome 4

Unit 3, Learning Outcome 1

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?

KSB 30

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

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 3, Learning Outcome 1

Unit 29, Learning Outcome 3

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?

Unit 2, Learning Outcomes 3 and 4

Unit 6, Learning Outcome 3

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?

Unit 2, Learning Outcomes 3 and 4

Unit 9, Learning Outcome 4

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?

Unit 27, Learning Outcome 2

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?

Unit 2, Learning Outcome 4

Unit 3, Learning Outcome 1

Unit 6, Learning Outcome 2

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?

Unit 3, Learning Outcome 1

Unit 6, Learning Outcome 2

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?

Unit 5, Learning Outcome 4

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?

Unit 3, Learning Outcome 1

Unit 6, Learning Outcome 4

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?

Unit 6, Learning Outcome 3

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?

Partially covered

Where within the qualification is the statement covered?

Unit 9, Learning Outcome 1

Please provide an explanation for the omission or partial coverage of this statement from the qualification.

Covered as part of discussing mathematical oprations and subsystems of the ALU (LO1). Other mathematical and statistical skills applied throughout other units.

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?

Unit 5, Learning Outcome 3

Unit 6, Learning Outcomes 2 and 3

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?

Unit 29, Learning Outcome 3

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?

Unit 3, Learning Outcome 2

Unit 6, Learning Outcome 3

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?

Unit 3, Learning Outcome 3

Unit 4, Learning Outcomes 1 and 4

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?

Unit 3, Learning Outcome 3

Unit 6, Learning Outcomes 2 and 3

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?

Unit 6, all Learning Outcomes

Unit 28, all Learning Outcomes

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?

Unit 6, Learning Outcome 2

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?

Unit 28, Learning Outcome 2

Unit 27, Learning Outcome 4

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?

Unit 3, Learning Outcome 4

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?

Unit 3, Learning Outcomes 2 and 3

Software developer

Software developer

Knowledge, skills and behaviours coverage within the qualification

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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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 7, Learning Outcome 1

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?

Unit 6, Learning Outcome 3
Unit 7, Learning Outcome 1

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?

Unit 6, Learning Outcome 1
Unit 7, Learning Outcome 2

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?

Unit 6, Learning Outcome 4

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?

Unit 6, Learning Outcome 4

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?

Unit 3, Learning Outcome 3

Unit 7, Learning Outcome 1

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?

Unit 7, Learning Outcome 4

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?

Unit 4, Learning Outcome 1

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?

Unit 1, Learning Outcomes 1 and 2

Unit 19, Learning Outcomes 1, 2, 3 and 4

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?

Unit 4, Learning Outcome 1

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?

Unit 7, Learning Outcome 4

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?

Unit 4, Learning Outcome 3

Unit 7, Learning Outcome 1

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?

Unit 1, Learning Outcome 3

KSB 14

S2 Develop effective user interfaces.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 4, Learning Outcome 1

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?

Unit 4, Learning Outcome 2

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?

Unit 1, Learning Outcome 4

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?

Unit 4, Learning Outcome 3

Unit 5, Learning Outcome 2

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?

Unit 19, Learning Outcome 3

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?

Unit 19, Learning Outcome 3

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?

Unit 1, Learning Outcome 3

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?

Unit 7, Learning Outcome 1

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?

Unit 1, Learning Outcome 3

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?

Unit 1, Learning Outcome 2

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?

Unit 1, Learning Outcome 3

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?

Unit 1, Learning Outcome 4

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?

Unit 6, Learning Outcome 3

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?

Unit 6, Learning Outcome 3

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?

Unit 1, Learning Outcomes 1, 2 and 3

Unit 17, Learning Outcomes 3 and 4

Unit 18, Learning Outcomes 1, 2, 3 and 4

Unit 19, Learning Outcome 3

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?

Unit 1, Learning Outcome 3

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?

Unit 6, Learning Outcomes 3 and 4

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?

Unit 6, Learning Outcomes 3 and 4

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?

Unit 3, Learning Outcome 3

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?

Unit 3, Learning Outcome 3

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?

Unit 4, Learning Outcome 2

Unit 6, Learning Outcome 1

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?

Unit 3, Learning Outcome 2

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?

Unit 6, Learning Outcome 4

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?

Unit 6, Learning Outcomes 2 and 3

Unit 17, Learning Outcomes 1 and 2

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?

Unit 3, Learning Outcome 2

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?

Unit 3, Learning Outcome 4

Software tester

Software tester

Knowledge, skills and behaviours coverage 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?

In 'HND_L45_Comp_RQF_Units_Iss6' attached document under:
Unit 23, Learning Outcome 2

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?

Unit 23, Learning Outcome 2

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?

Unit 23, Learning Outcome 4

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?

Unit 23, Learning Outcome 2

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?

Unit 23, Learning Outcome 1

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?

Unit 1, Learning Outcome 4

Unit 4, Learning Outcomes 3 and 4

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?

Unit 6, Learning Outcome 3

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?

Unit 4, Learning Outcome 3

Unit 23, Learning Outcome 3

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?

Unit 4, Learning Outcome 3

Unit 23, Learning Outcome 2

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?

Unit 23, Learning Outcome 2

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?

Unit 4, Learning Outcome 3

Unit 23, Learning Outcomes 2 and 3

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?

Unit 4, Learning Outcome 3

Unit 23, Learning Outcome 2

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?

Unit 4, Learning Outcome 3

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?

Unit 23, Learning Outcome 1

KSB 15

K15 The defect management process.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 23, Learning Outcome 2

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?

Unit 6, Learning Outcome 3

Unit 23, Learning Outcome 2

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?

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?

Unit 2, Learning Outcome 4

Unit 23, Learning Outcome 2

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?

Unit 4, Learning Outcome 3

Unit 5, Learning Outcomes 3 and 4

Unit 6, Learning Outcomes 2 and 3

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?

Unit 3, Learning Outcome 3

Unit 6, Learning Outcome 3

Unit 23, Learning Outcome 3

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?

Unit 23, Learning Outcomes 1, 2 and 3

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?

Unit 23, Learning Outcomes 1, 2 and 3

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?

Unit 5, Learning Outcome 1

KSB 24

S1 Apply static test techniques.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 4, Learning Outcome 3

Unit 23, Learning Outcome 2

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?

Unit 4, Learning Outcome 3

Unit 23, Learning Outcome 2

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?

Unit 23, Learning Outcome 2

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?

Unit 2, Learning Outcome 4

Unit 23, Learning Outcomes 2 and 3

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?

Unit 2, Learning Outcome 4

Unit 23, Learning Outcomes 2 and 3

KSB 29

S6 Use defect tracking tools.

Is the statement covered within the qualification?

Fully covered

Where within the qualification is the statement covered?

Unit 23, Learning Outcomes 2 and 3

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?

Unit 23, Learning Outcomes 2 and 3

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?

Unit 23, Learning Outcomes 2 and 3

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?

Unit 23, Learning Outcomes 2 and 3

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?

Unit 4, Learning Outcome 3

Unit 5, Learning Outcomes 3 and 4

Unit 6, Learning Outcomes 2 and 3

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?

Unit 3, Learning Outcome 4

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?

Unit 23, Learning Outcomes 2 and 3

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?

Unit 45, Learning Outcomes 2 and 3

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?

Unit 3, Learning Outcome 3

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?

Unit 3, Learning Outcome 3

Unit 6, Learning Outcome 3

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?

Unit 3, Learning Outcome 2

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?

Unit 3, Learning Outcome 2

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?

Unit 23, Learning Outcome 2

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?

Unit 3, Learning Outcome 3

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?

Unit 3, Learning Outcome 1

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

Please see overarching document for this section - Document 1 (and also supplementary Document 2)

Please give a short description of the additional content

The additional content is in the optional units which we offer to students to complete their pathway.

Where within the qualification is the additional content covered?

In 'HND_L45_Comp_RQF_Units_Iss6' attached

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

See Document 1 for a full breakdown and explanation.

Please attach any additional, relevant employer engagement evidence for the inclusion of additional content.

IfATE Digital Submission Document 1 Rationale for the inclusion of additional occupationally relevant content.docx

Document 2 Minutes - ESAG HN Computing 2020.pdf

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.

Please see attached:

- Document 3
- Document 4a-4e

Please attach the following evidence of your assessment:

IfATE Digital Submission Document 3 Approach to Higher National Assessment.pdf

Document 4a Unit_01_Programming_EAB.pdf

Document 4b Unit_02_Networking_EAB.pdf

Document 4c Unit_25_Machine_Learning_EAB.pdf

Document 4d Unit_54_Prototyping_EAB.pdf

Document 4e Unit_8_Data_Analytics_EAB.pdf

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.

Please see attached:

- Document 5
- Document 2
- Letters of support

Please attach evidence of employer validation of the qualification.

IfATE Letter of Support - Rob Potter.pdf

Pearson_Education_Limited_-_Letter_of_Support_-_2020-12-03_.pdf

Pearson_Education_Limited_-_Letter_of_Support_-_2020-12-03_-SGdocx.pdf

Document 2 Minutes - ESAG HN Computing 2020.pdf

IfATE Digital Submission Document 5 Employer Engagement in Higher Nationals.pdf

IfATE Letter of Support Fujitsu.pdf