

# Professional Discussion underpinned by a Portfolio AE2

Overview

**BSc Digital and Technology Solutions Professional** 

Apprenticeship Standard: <u>ST0119 v1.2 (2023)</u> Specialism (Pathway): **Cyber Security** 

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# **Summary**

This document provides comprehensive guidance for apprentices undertaking the **BSc Digital and Technology Solutions Professional (Cyber Security Pathway)** under the ST0119 v1.2 (2023) apprenticeship standard. It outlines the expectations and structure of the Professional Discussion underpinned by a Portfolio (Assessment Element 2).

Apprentices are required to compile a portfolio of six distinct, work-based evidence items, each mapped to specific Knowledge, Skills, and Behaviours (KSBs). The document details how to select, structure, and present these items using reflective writing and real-world examples, supported by visual artefacts and anonymised data.

#### The guidance includes:

- Thematic breakdown of portfolio evidence (Underlying Principles, Technical Solutions, Innovation & Response, Legal & Ethics).
- Strategies for demonstrating competency, including use of first-person narrative, and alignment with assessment criteria.
- Detailed KSB mapping tables and grading rubrics to support preparation for the professional discussion.

This document is designed to ensure apprentices are well-prepared to articulate their learning and professional impact, enabling successful completion of the EPA.

# Professional Discussion underpinned by a Portfolio AE2



#### **Cyber Security Analyst**

A Cyber Security Analyst leads in the work to define, implement and maintain security products and systems within an organisation's policies and service level agreements. They will need to analyse and understand the points of vulnerability within IT systems and a proactive and agile approach to maintain high levels of systems and organisational security. They will monitor security performance using tools, statistical reporting and analysis, using the output of monitoring to problem solve, propose improvements and implement changes to meet service level requirements. A Cyber Security Analyst leads technical implementation of security infrastructures and technical designs, including producing cost and timescale estimates and identifying risks. After implementation they take ownership for obtaining the information required to diagnose and resolve more complex problems and escalations such as security incidents and business recovery. They engage with third parties to jointly resolve in-depth product issues where necessary and completing cyber risk assessments. Cyber Security Analyst Apprenticeship (ST0119 v1.2) 2023

Your portfolio should evidence your competence against the KSBs listed in the standard. It must be mapped to six distinct items, each showcasing different aspects of your role and learning.

Choose projects that cover a range of activities, such as:

- Cyber Security
- Ethical and legal compliance
- Organisational, business and team collaboration

Ensure all examples are authentic, anonymised if necessary and have organisation clearance to submit.

Explain why you did it, what you learned, and how it impacted the project or organisation. Use reflective writing to show growth and understanding.

Include examples that show how your skills have developed over time. Highlight how you've responded to feedback or adapted to new challenges.

Be ready to talk through each item, justify your decisions, and explain how they meet the KSBs. Practice answering questions that ask you to expand, clarify, or compare your work.

# Portfolio Evidence Overview (6x items)

This section provides a structured list of **example portfolio evidence items**, grouped under the four **End-Point Assessment (EPA) themes** defined in the ST0119 (version 1.2) apprenticeship standard. These examples are designed to support apprentices and employers in identifying suitable work-based projects and artefacts that demonstrate the required **Knowledge**, **Skills**, **and Behaviours (KSBs)**.

**Themes - Each theme reflects a key area of competence**: The portfolio items listed under each theme are **examples only** and should be adapted to reflect the apprentice's actual work and context. They are intended to guide the development of a strong, well-evidenced portfolio that supports a successful EPA. The apprenticeship standard outlines both core and pathway duties, each comprising a set of Knowledge, Skills, and Behaviours (KSBs) aligned to specific criteria or activities. These may also be helpful when selecting appropriate portfolio items for documentation.

Theme A: Underlying Principles  Demonstrates foundational understanding of Cyber Security concepts, methodologies, and team dynamics  Security Architecture Overview Document Cyber Risk Assessment Report Agile Sprint Planning for Security Features Stakeholder Engagement Summary Security Requirements Specification	Theme B: Technical Solutions  Focuses on the practical application of cybersecurity tools, techniques, and implementation to protect systems, detect threats, and respond to incidents effectively.  Security Monitoring Dashboard Setup Incident Response Playbook Penetration Testing Report Secure Network Configuration Documentation Malware Analysis Case Study
<ul> <li>Team Collaboration Reflection Log</li> <li>Security Governance and Compliance Mapping</li> <li>Leadership in Incident Response Simulation</li> </ul> Theme C: Innovation & Response Highlights adaptability, continuous improvement, and	<ul> <li>Security Patch Management Log</li> <li>Code Review for Security Vulnerabilities</li> <li>Security Tool Evaluation Matrix</li> </ul> Theme D: Legal, Ethics & Landscape Covers compliance, ethical practice, and awareness of
Not applicable in this assessment element for Cyber Security Pathway	<ul> <li>GDPR Compliance Audit Report</li> <li>Ethical Hacking Policy Document</li> <li>Security Awareness Campaign Materials</li> <li>Accessibility and Inclusion Review</li> <li>Professional Conduct Reflection</li> <li>Legal Standards Mapping to Security Controls</li> <li>Third-Party Risk Assessment Report</li> </ul>

Throughout the apprenticeship you will need to collate a portfolio of work mapped to the Standard's KSBs, in Gateway COM628 module, the final on-programme module in 3rd (Level 6), you will submit a Portfolio of select a final 6 discrete pieces for the Professional Discussion underpinned by a portfolio assessment element 2 (AE2)

- apprentices must compile a portfolio of evidence during the on-programme period of the apprenticeship.
- it must contain evidence related to the KSBs that will be assessed by the professional discussion.
- the portfolio of evidence will typically contain 6 discrete pieces of evidence.
- · evidence must be mapped against the KSBs.
- evidence may be used to demonstrate more than one KSB; a qualitative as opposed to quantitative approach is suggested.
- evidence sources may include:
- workplace documentation/records, for example workplace policies/procedures, records
- witness statements
- assignments
- annotated photographs
- video clips (maximum total duration 10 minutes); the apprentice must be in view and identifiable.

#### This is not a definitive list; other evidence sources are possible.

- Although it is expected that apprentices at degree level will be reflective in their practice, it should be noted that the EPA assesses individuals on evidence of output against the KSBs, not reflective accounts, or any methods of self-assessment.
- any employer contributions should focus on direct observation of performance (for example witness statements) rather than opinions.
- the evidence provided must be valid and attributable to the apprentice; the portfolio of evidence must contain a statement from the employer and apprentice confirming this.
- the portfolio of evidence must be submitted to the EPAO at the gateway.

The portfolio of evidence is not directly assessed. It underpins the professional discussion and will not be marked by the EPAO (Southampton Solent University). Solent will review the portfolio of evidence in preparation for the professional discussion but is not required to provide feedback after this portfolio review.

# Strategies for Demonstrating Knowledge, Skills & Behaviours

- 1. **Use real-world, work-based examples** only no academic tasks, hobby projects, or generic online learning examples.
- 2. **Speak and Write in First Person** Always focus on **your individual contributions** use **"I"** not "we" to clearly show your personal contribution. Even in team projects, emphasise your role and decisions. *Examples:* "I volunteered to...", "I conducted research that informed the decision..."
- 3. **Be Explicit for the Assessor** Don't assume they know your workplace or role. Spell out exactly what *you* did to meet the KSBs. Anything left unsaid won't be assessed.
- 4. **Mirror the Assessment Plan Language** Adopt phrases directly from the guidance (e.g. "*I demonstrated my ability to...*") to make it clear how you've met specific criteria.
- 5. **Reflect on the What and the Why** For each example, clearly explain *what* you did and *why* you did it. Generic statements are insufficient.
- 6. **Use Key Phrases to Show Depth** Clearly explain **decisions, reasoning, and outcomes**, not just the task done. Focus your language around **"what"** and **"why"**, such as "I analysed, I evaluated, I implemented... because..." to enhance clarity and impact.
- 7. **Add Depth for Distinction** To achieve higher grades, go beyond what you did and reflect on outcomes, emphasise initiative, problem-solving, and measurable results, lessons learned, and how you would refine or improve further. Demonstrate insight into future application and organisational influence.

#### 8. Evidence Best Practices

- Use visual evidence (screenshots, dashboards, visuals) wherever possible
- Ensure all images are **captioned** and relate clearly to your narrative.
- Apply GDPR-compliant techniques:

Redact sensitive data.

Anonymise names, addresses, IDs.

**Normalise** data to show trends without revealing exact figures.

#### 9. **Demonstrating Competency**

- Describe technical tasks in enough detail to be replicated.
- Justify your decisions: e.g., why a tool was chosen or why certain data was excluded.
- If results are not yet available, **update portfolio pieces** later it's a living document until submission.

## 10. What NOT to Include

- Names of others use initials or job titles.
- Negative remarks or personal commentary.
- Content not directly relevant to demonstrating your professional competency.

#### **Summary**

Strategy	What to do
First person	Emphasise <b>your</b> actions and contributions
Explicit detail	Explain exactly what you did and why
Mirror plan language	Use phrasing from the assessment plan
Legal & Professional	Address all relevant Legal & Professional issues
Reflect deeply	Show insight on decisions and outcomes
Practice & feedback	Use mock discussions and review videos
STAR format*	Structure responses clearly: Situation, Task, Action, Result

<sup>\*</sup> The **STAR** format is a structured method for answering behavioural interview questions or presenting professional experiences, often used in performance reviews or assessments. It stands for: **Situation – Task – Action – Result. Note:** There is no obligation to use this method, only consider it if you find it helpful. It is included here because it often appears in searches for best practices in presenting apprenticeship portfolios and conducting professional discussion assessments at all levels.

**AMAZON, 2025.** *Interview Loop - The STAR method* [viewed 30 July 2025]. Available from: <a href="https://amazon.jobs/content/en/how-we-hire/interview-loop">https://amazon.jobs/content/en/how-we-hire/interview-loop</a>

# What to Expect in the Portfolio Professional Discussion EPA Assessment (AE2)



#### **Professional Discussion - Overview**

The professional discussion is a formal, two-way conversation between the apprentice and an independent assessor. It allows the apprentice to demonstrate the knowledge, skills and behaviours (KSBs) mapped to this assessment method, using examples from their portfolio of evidence. While the portfolio supports the discussion, it is not directly assessed.

#### This method is chosen due to:

The broad scope of the standard, allowing evidence to be drawn from across the programme. The opportunity to explore the apprentice's depth of understanding in specialist areas.

#### **Professional Discussion Structure**

The professional discussion follows a semi-structured format. The assessor leads the introduction, while the apprentice leads the dialogue, using their evidence portfolio

#### Introduction (5 minutes)

The assessor explains the process, checks ID, and outlines the session. This time is not included in the assessment duration.

#### Main Discussion (60 minutes +10%)

The apprentice leads the dialogue, referring to their portfolio to support their responses.

- Questions: A minimum of 4 questions will be asked, with follow-ups for clarification.
- **Themes**: Questions will explore:
  - Underlying Principles
  - Technical Solutions
  - Innovation & Response This theme does not apply on Cyber Pathway on AE2
  - Legal, Ethics & Landscape
- Closure: Opportunity for final reflections or clarifications.

#### **Delivery and Preparation**

The assessment is conducted remotely via video call.

#### **Apprentices should:**

- Book or be in a quiet, private room.
- Use a computer with a webcam, microphone, and stable internet.
- Have their portfolio ready for reference.

The assessor will guide the session and ensure the apprentice can achieve the highest possible grade.

#### **KSBs Assessed via Professional Discussion**

These are KSB learning outcomes that will need to be mapped to in this assessment for full details on KSB Professional Discussion assessment (Appendix A)

Category	Туре	KSBs
Core	Knowledge	K6, K7, K8, K9, K10, K11, K12, K13, K14, K16, K19, K20
Core	Skills	S4, S7, S8, S9, S10, S11, S12, S15
Core	Behaviours	B1, B2, B4, B6, B7, B8
Cyber Security	Knowledge	K46 K47 K48 K49 K50
Cyber Security	Skills	S41 S43 S45

**Note:** The documentation within the standard also refers to pathway learning outcomes using different codes; however, these are equivalent to the ones listed below. The following is a consolidated list of the main knowledge and skills outcomes, along with their corresponding pathway learning outcome codes as presented in the standard documentation.

K46(CSK2) K47 K48(CSK4) K49(CSK5) K50 (CSK6) S41(CSS2) S43(CSS4) S45(CSS6)

# **Grading Professional Discussion EPA Assessment (AE2)**

This is the second of two EPA assessment elements, and it has its own grading rubric (Appendix B). You'll receive a grade of Distinction, Pass or Fail for each element, which will contribute to your overall result as shown in the column on the right. A numeric score will also be given for both assessments, and these will be used to calculate your overall degree average and classification in line with university guidelines.

Project Report with presentation, questions and answers	Professional Discussion underpinned by a portfolio	Overall Grading
Fail	Any grade	Fail
Any grade	Fail	Fail
Pass	Pass	Pass
Pass	Distinction	Merit
Distinction	Pass	Merit
Distinction	Distinction	Distinction

#### **EPA Portfolio Template**

Throughout your apprenticeship, you will be continuously mapping your learning from on-programme modules and capturing potential evidence and documentation for your work-based portfolio. This process will use the provided template and will help you build a mental model of how your work aligns with the required Knowledge, Skills, and Behaviours (KSBs), all linked to your upskilling and learning activities.

As you approach the End-Point Assessment (EPA), you will need to select **six of your strongest portfolio items**. For each item, you will create a **narrative documentation** that clearly links the work to the relevant KSBs for the **Professional Discussion (AE2)**.

You will be given a template to support this process. Below is an example of one of the sections (or "blocks") included in the template. These blocks (Appendix C) are designed to help you:

- Map your work to the appropriate KSBs
- Apply the correct assessment criteria
- Ensure coverage of all required themes within the assessment

This structured approach will help you demonstrate your competence and readiness for the EPA.

#### Using KSB Theme Blocks in Your Portfolio Template

The portfolio template includes blocks outlining the assessment criteria and the Core and Pathway (Specialism) KSBs for each of the four required themes.

These blocks should be copied and pasted at the end of the narrative for each of your six portfolio items.

Theme D: Legal, Ethics & Landscape								
Core - Social Infrastructure - Legal, Ethical and Sustainability (Theme D)		Applies relevant legal, ethical, social and professional standards to digital and technology solutions considering both technical and non-technical audiences and in line with organisational guidelines. (K19, S15, B1, B2, B5)		For Distinction: Justifies the application of relevant legal, ethical, social and professional standards to digital and technology solutions. (K19, S15)				
		withir	ins sustainable deve n digital technologie ncluding diversity ar	s as they relate to the	neir		ion Evaluates the im nology practices of ti	
K19 K20			S15	B1		B2	В5	В8

Image: Example of Theme (KSB) block

#### **Apprenticeship Statement of Authenticity**

Before submission, both apprentice and employer must complete a **Statement of Authenticity** at the end of this Portfolio Template document. This confirms that the work is your own and reflects your learning and development throughout the programme.

Any organisational clearance or rights to publishing must be discussed with the Solent support tutors before the Gateway submission for this assessment.

# <EXAMPLE FOR THEME-A PORTFOLIO ITEM - START>

This is a suggested layout; you may adopt a different structure, provided it is applied consistently across all six portfolio items.

Please note yellow highlights indicate where diagrams and links to supporting evidence will appear in the final portfolio and KSB theme blocks have been appended to the end of the narrative description.

Item 1

Team Collaboration in Cybersecurity Incident Response

My Role in Coordinating a Cybersecurity Incident Response Team

#### **Overview:**

In this portfolio item, I demonstrate my understanding of **team collaboration and organisational context** within a cybersecurity environment. I reflect on my role in a coordinated response to a simulated phishing attack, highlighting how I applied cybersecurity principles, worked effectively with cross-functional teams, and demonstrated leadership and professional behaviours. This example aligns with **Theme A: Underlying Principles**, covering both **core KSBs** and **Cybersecurity Specific KSBs [K7, K8, K9, K10, S7, S8, B4, B6, B7].** 

**Insert Diagram 1**: Cybersecurity Incident Response Workflow A visual showing the stages of incident response and team roles.

#### Situation:

During a cybersecurity training exercise, our organisation simulated a phishing attack targeting internal staff. I was assigned to the incident response team, which included IT support, network engineers, and compliance officers. The goal was to identify, contain, and remediate the threat while maintaining communication and documentation.

#### Task:

My responsibility was to coordinate with team members, contribute to threat analysis, and ensure that our response aligned with organisational policies and cybersecurity best practices. I also documented the process and reflected on team dynamics and leadership approaches

#### **Actions:**

#### **Understanding the Organisational Context [K7]:**

I began by reviewing the organisation's cybersecurity policies and escalation procedures. I analysed how different departments contributed to the response and how our actions aligned with business continuity goals.

**Insert Diagram 2**: Team Roles and Escalation Pathways

A flowchart showing how different roles interact during incident response.

#### Supporting Evidence (embedded or links to):

- Cybersecurity Policy Summary (PDF)
- Incident Escalation Flowchart

"I demonstrated my understanding of the organisational context by analysing how our response aligned with business continuity and compliance requirements."

#### Working Effectively in a Team [K8, S7, B4, B6, B7]

I participated in daily briefings, shared threat intelligence findings, and collaborated on containment strategies. I used Microsoft Teams and SharePoint to communicate and share documentation.

#### **Insert Diagram 3**: Team Collaboration Timeline

A timeline showing key collaboration points and decisions.

#### Supporting Evidence (embedded or links to):

- Teams Chat Log (Redacted)
- Threat Intelligence Report (PDF)

I adapted my communication style to suit technical and non-technical colleagues, and I encouraged open discussion during debriefs. I also supported junior team members by explaining technical concepts and guiding them through the response process.

"I demonstrated my ability to work effectively in a team by contributing to threat analysis, adapting communication styles, and supporting knowledge sharing."

#### Applying Leadership and Management Principles (K9 K10, S8):

I took initiative to lead the documentation effort, ensuring that all actions were logged and justified. I prioritised tasks using a risk-based approach and coordinated with compliance to ensure regulatory alignment.

#### **Insert Diagram 4**: Risk-Based Prioritisation Matrix

A matrix showing how tasks were prioritised based on impact and urgency.

#### Supporting Evidence (embedded or links to)::

- Incident Response Log (PDF)
- Compliance Checklist

I reflected on the leadership styles observed during the exercise and evaluated how they influenced team morale and decision-making. I also practiced self-leadership by setting goals for improving my incident response skills and seeking feedback from senior analysts.

"I applied leadership principles by managing documentation, prioritising tasks based on risk, and reflecting on team leadership dynamics."

#### **Results:**

The incident was contained within 24 hours, and no data was compromised. The team received commendation for clear communication and rapid response. My documentation was used as a template for future exercises.

#### Supporting Evidence (embedded or links to):

- Post-Incident Review Summary
- Team Commendation Email

#### **Reflection and Lessons Learned:**

This experience reinforced the importance of structured collaboration in cybersecurity. I learned that clear communication and documentation are critical during high-pressure situations. In future, I would introduce earlier tabletop exercises to improve readiness and refine escalation protocols.

"I evaluated the outcomes of our response and identified improvements such as earlier simulation exercises and clearer escalation paths."

#### **KSBs Demonstrated:**

- I analysed organisational roles and their impact on cybersecurity response. K7
- I worked effectively in a team using collaboration tools and shared intelligence. K8, S7
- I applied leadership and management principles in coordinating documentation and prioritisation. K9, K10, S8
- I demonstrated professional behaviours including adaptability, collaboration, and continuous improvement. **B4, B6, B7**

Theme A: Underlying Principles 1					
Core - The Organisational Context	Reviews the roles, functions and activities relevant to technology solutions within an organisation. (K7)				
К7					

Theme A: Underlying Principles 2							
Core - Leading and Working Together  Explains how teams work effectively to produce a digital and technology solution applying relevant organisational theories using up to date awareness of trends and innovations. (K8, S7, B4, B6, B7)  Describes the concepts and principles of leadership and management as they relate to their role and how they apply them. (K9, K10, S8)					s and		
K7 K8 K9 K10 S7 S8 B4 B6						В7	

# <EXAMPLE FOR THEME-A PORTFOLIO ITEM - END>

# Cyber Security - KSB mapping to EPA Assessment Methods (Knowledge) - Appendix A

KSB#	KNOWLEDGE	ASSESSMENT METHODS
K6 Core	The approaches and techniques used throughout the digital and technology solution lifecycle and their applicability to an organisation's standards and preexisting tools.	Professional Discussion underpinned by a portfolio
<b>K7</b> Core	The roles, functions and activities within digital technology solutions within an organisation.	Professional Discussion underpinned by a portfolio
K8 Core	How teams work effectively to produce digital and technology solutions.	Professional Discussion underpinned by a portfolio
K9 Core	The concepts and principles of leadership.	Professional Discussion underpinned by a portfolio
K10 Core	Management techniques and theories. For example, effective decision making, delegation and planning methods, time management and change management.	Professional Discussion underpinned by a portfolio
K11 Core	The nature and scope of common vulnerabilities in digital and technology solutions. For example, the risks of unsecure coding and unprotected networks.	Professional Discussion underpinned by a portfolio
K12 Core	The role of data management systems within Digital and Technology Solutions.	Professional Discussion underpinned by a portfolio
K13 Core.	Principles of data analysis for digital and technology solutions.	Professional Discussion underpinned by a portfolio
K14 Core.	A range of quantitative and qualitative data gathering methods and how to appraise and select the appropriate method.	Professional Discussion underpinned by a portfolio
K16 Core.	Fundamental computer networking concepts in relation to digital and technology solutions. For example, structure, cloud architecture, components, quality of service.	Professional Discussion underpinned by a portfolio
K19 Core	Relevant legal, ethical, social and professional standards to a digital and technology solution. For example, Diversity, Accessibility, Intellectual Property, Data Protection Acts, Codes of Practice, Regulatory and Compliance frameworks.	Professional Discussion underpinned by a portfolio
K20 Core	Sustainable development approaches as applied to digital and technology solutions such as green computing.	Professional Discussion underpinned by a portfolio
K46: Cyber Security	Principles of quantitative and qualitative risk management theory including the role of risk stakeholders.	Professional Discussion underpinned by a portfolio
K47: Cyber Security	Concepts and approaches to cyber security assurance.	Professional Discussion underpinned by a portfolio
K48: Cyber Security	Key legislative frameworks and the regulatory landscape for cyber security including Data Protection Act 2018, Network Information System Directive 2018, Regulation of Investigatory Powers Act 2000, ISO 27001.	Professional Discussion underpinned by a portfolio
K49: Cyber Security	Approaches to incident response and management including escalation and investigation of cyber security breaches and their root cause.	Professional Discussion underpinned by a portfolio

KSB#	KNOWLEDGE	ASSESSMENT METHODS
K50: Cyber Security	Ethical principles and codes of good practice of at least one significant cyber security professional body and the ethical responsibilities of a cyber security professional.	Professional Discussion underpinned by a portfolio

# **Cyber Security Analyst - KSB mapping to EPA Assessment Methods (Skills)**

KSB#	SKILL	ASSESSMENT METHODS
<b>S4</b> Core	Initiate, design, code, test and debug a software component for a digital and technology solution.	Professional Discussion underpinned by a portfolio
<b>S7</b> Core	Work effectively within teams, leading on appropriate digital technology solution activities.	Professional Discussion underpinned by a portfolio
S8 Core	Apply relevant organisational theories. For example, change management principles, marketing approaches, strategic practice, and IT service management to a digital and technology solutions project.	Professional Discussion underpinned by a portfolio
S9 Core	Apply relevant security and resilience techniques to a digital and technology solution. For example, risk assessments, mitigation strategies.	Professional Discussion underpinned by a portfolio
S10 Core	Initiate, design, implement and debug a data product for a digital and technology solution.	Professional Discussion underpinned by a portfolio
S11 Core	Determine and use appropriate data analysis techniques. For example, Text, Statistical, Diagnostic or Predictive Analysis to assess a digital and technology solutions.	Professional Discussion underpinned by a portfolio
S12 Core	Plan, design and manage simple computer networks with an overall focus on the services and capabilities that network infrastructure solutions enable in an organisational context.	Professional Discussion underpinned by a portfolio
S15 Core	Apply relevant legal, ethical, social and professional standards to a digital and technology solution.	Professional Discussion underpinned by a portfolio
S41 Cyber Security	Undertake security risk assessments for complex systems without direct supervision and propose a remediation strategy relevant to the context of the organisation.	Professional Discussion underpinned by a portfolio
S43 Cyber Security	Manage cyber security risk	Professional Discussion underpinned by a portfolio
S45 Cyber Security	Lead cyber security awareness campaigns and evaluate their effectiveness.	Professional Discussion underpinned by a portfolio

# **Cyber Security Analyst - KSB mapping to EPA Assessment Methods (Behaviours)**

KSB#	BEHAVIOUR	ASSESSMENT METHODS
B1 Core	Has a strong work ethic and commitment to meet the standards required.	Professional Discussion underpinned by a portfolio
<b>B2</b> Core	Reliable, objective and capable of both independent and team working.	Professional Discussion underpinned by a portfolio
<b>B4</b> Core	Commits to continuous professional development; maintaining their knowledge and skills in relation to developments in digital and technology solutions that influence their work.	Professional Discussion underpinned by a portfolio
B6 Core	Participates in and shares best practice in their organisation, and the wider community for aspects relevant to digital and technology solutions.	Professional Discussion underpinned by a portfolio
<b>B7</b> Core	Maintains awareness of trends and innovations in the subject area, utilising a range of academic literature, online sources, community interaction, conference attendance and other methods which can deliver business value.	Professional Discussion underpinned by a portfolio
B8 Core	Champions diversity and inclusion in their work ensuring that digital technology solutions are accessible.	Professional Discussion underpinned by a portfolio

### Grading - Professional Discussion underpinned by a portfolio - Appendix B

This grading rubric applies to the Professional Discussion assessment, which is based on your six-item portfolio. Each item in your portfolio must clearly map to the relevant Knowledge, Skills, and Behaviours (KSBs) required for this assessment element.

Your portfolio will be submitted at the Gateway stage as you enter the End Point Assessment (EPA) period. It is essential that:

- Your portfolio aligns directly with the specified KSBs.
- You are prepared to expand on and clarify how your work demonstrates these KSBs during the discussion.
- This ensures that assessors can confidently evaluate your competence against both Pass and Distinction criteria.

THEME KSBS	PASS APPRENTICES MUST DEMONSTRATE ALL THE PASS DESCRIPTORS	DISTINCTION APPRENTICES MUST DEMONSTRATE ALL THE PASS DESCRIPTORS AND ALL OF THE DISTINCTION DESCRIPTORS
Core - The Organisational Context (A: Underlying Principles) K7	Reviews the roles, functions and activities relevant to technology solutions within an organisation. (K7)	N/A
Core - Leading and Working Together (A: Underlying Principles) K8 K9 K10 S7 S8 B4 B6 B7	Explains how teams work effectively to produce a digital and technology solution applying relevant organisational theories using up to date awareness of trends and innovations. (K8, S7, B4, B6, B7)  Describes the concepts and principles of leadership and management as they relate to their role and how they apply them. (K9, K10, S8)	N/A
Core – Technical Concepts (Theme B) K6 K11 K12 K14 K16	Critically evaluates the nature and scope of common vulnerabilities in digital and technology solutions (K11)  Explains core technical concepts for digital and technology solutions, including:  The approaches and techniques used throughout the digital and technology solution lifecycle and their applicability to an organisation's standards and preexisting tools. (K6)  Data gathering, data management, and data analysis. (K12, K14)  Computer networking concepts. (K16)	N/A
Core - Applied Technical Solutions (Theme B) K13 S4 S9 S10 S11 S12	Demonstrates the use of core technical concepts for digital and technology solutions, including:  Initiate, design, code, test and debug a software component for a digital and technology solution. (S4)  Security and resilience techniques. (S9)  Initiates, designs, implements and debugs a data product for a digital and technology solution. (S10)  Plans, designs and manages simple computer networks. (S12)  Applies the principles of data analysis for digital and technology solutions. (K13, S11)	N/A

THEME KSBS	PASS APPRENTICES MUST DEMONSTRATE ALL THE PASS DESCRIPTORS	DISTINCTION  APPRENTICES MUST  DEMONSTRATE ALL THE PASS  DESCRIPTORS AND ALL OF  THE DISTINCTION  DESCRIPTORS
Cyber Security - Technical Solutions (Theme B) K49 S41 S43	Evaluates concepts and approaches to cyber security assurance. (K47)  Evaluates approaches to incident response and management including escalation and investigation of cyber security breaches and their root cause. (K49)  Explains how they undertake security risk assessments for complex systems without direct supervision and propose a remediation strategy relevant to the context of the organisation. (S41)  Explains how they manage cyber security risk. (S43)	For Distinction: Critically evaluates how they undertake security risk assessments for complex systems without direct supervision and propose a remediation strategy relevant to the context of the organisation. (S41)  For Distinction: Critically evaluates how they manage cyber security risk. (S43)
Innovation and Response (Theme C)	N/A on this assessment for Cyber	N/A
Core - Social Infrastructure - Legal, Ethical and Sustainability (Theme D) K19 K20 S15 B1 B2 B8	Applies relevant legal, ethical, social and professional standards to digital and technology solutions considering both technical and non-technical audiences and in line with organisational guidelines. (K19, S15, B1, B2, B5)  Explains sustainable development approaches within digital technologies as they relate to their role including diversity and inclusion. (K20, B8)	For Distinction: Justifies the application of relevant legal, ethical, social and professional standards to digital and technology solutions. (K19, S15)  For Distinction: Evaluates the impact of sustainable digital technology practices of their organisation. (K20)
Cyber Security - Legal, Ethics and Landscape ( <b>Theme D</b> ) K46 K48 K50 S45	Explains the principles of quantitative and qualitative risk management theory including the role of risk stakeholders. (K46)  Describes the key legislative frameworks and the regulatory landscape for cyber security. (K48)  Explains the ethical principles and codes of good practice of at least one significant cyber security professional body and the ethical responsibilities of a cyber security professional. (K50)  Describes how they lead cyber security awareness campaigns and evaluate their effectiveness. (S45)	N/A

# KSB Professional Discussion underpinned by a portfolio Mapping Block - Appendix C

KSB mapping blocks are tools used to align portfolio evidence with the specific Knowledge, Skills, and Behaviours (KSBs) required by the assessment criteria. These blocks play a crucial role in ensuring that each item in the portfolio clearly demonstrates how it meets the relevant standards.

Below are examples of Knowledge, Skills, and Behaviours (KSB) mapping blocks. These will be used in the portfolio assessment template to show how each piece of evidence supports the associated KSBs within each theme. The following examples illustrate how to use these blocks effectively throughout the assessment process.

Theme A: Underlying Principles 1						
Core - The Organisational Context	Reviews the roles, functions and activities relevant to technology solutions within an organisation. (K7)					
К7						

Theme A: l	Jnderlying P	rinciples 2						
Core - Lead Working Tog	_	applying reinnovation  Describes	elevant organis. (K8, S7, B4	isational theo , B6, B7)	to produce a c ries using up t es of leadersh K9, K10, S8)	to date aware	ness of trends	s and
К7	К8	К9	K10	<b>S</b> 7	S8	B4	В6	В7

Theme B: Technical S	Solutions 1						
Core – Technical Concepts <b>(Theme B)</b>	Critically evaluates the nature and scope of common vulnerabilities in digital and technology solutions (K11)						
	Explains core technical concepts for digital and technology solutions: The approaches and techniques used throughout the digital and technology solution lifecycle and their applicability to an organisation's standards and pre-existing tools. (K6)						
	•	cal concepts for digital and ta analysis. (K12, K14)	d technology solutions: Dat	a gathering, data			
	Explains core techni concepts. (K16)	cal concepts for digital and	d technology solutions: Cor	nputer networking			
К6	K11	K12	K14	K16			

**S12** 

# Theme B: Technical Solutions 2 Core - Applied Technical Solutions (Theme B) Demonstrates the use of core technical concepts for digital and technology solution. (S4) Demonstrates the use of core technical concepts for digital and technology solution. (S4) Demonstrates the use of core technical concepts for digital and technology solutions Security and resilience techniques. (S9) Demonstrates the use of core technical concepts for digital and technology solutions Initiates, designs, implements and debugs a data product for a digital and technology solution. (S10) Demonstrates the use of core technical concepts for digital and technology solutions Plans, designs and manages simple computer networks. (S12) Applies the principles of data analysis for digital and technology solutions. (K13, S11)

**S10** 

**S11** 

**S9** 

K13

**S4** 

Theme B: Technical	Solutions 3					
Cyber Security - Technical Solutions (Theme B)		Evaluates concepts and approaches to cyber security assurance. (K47)				
	Evaluates approaches to incident response and management including escalation and investigation of cyber security breaches and their root cause. (K49)					
	assessment supervision	Explains how they undertake security risk assessments for complex systems without direct supervision and propose a remediation strategy relevant to the context of the organisation. (S41)			ertake security risk a ems without direct s	y evaluates how they ssessments for complex upervision and propose a evant to the context of the
	Explains how (S43)	w they manage cyber se	curity risk.		Distinction: Criticall age cyber security ri	y evaluates how they sk. (S43)
K47	K49	S41	S43	Į.		

Theme D: Leg	gal, Ethic	s & La	ındscape 1					
Core - Social Infrastructure - Legal, Ethical and Sustainability (Theme D)		Applies relevant legal, ethical, social and professional standards to digital and technology solutions considering both technical and nontechnical audiences and in line with organisational guidelines. (K19, S15, B1, B2, B5)			For Distinction: Justifies the application of relevant legal, ethical, social and professional standards to digital and technology solutions. (K19, S15)			
		withir	ins sustainable deven digital technologies	s as they relate to th	eir		<b>tion</b> Evaluates the in nology practices of tl	•
K19	K20		S15	B1		B2	В5	В8

Theme D: Legal, Et	nics & Lands	scape 2						
Cyber Security - Legal, Ethics and Landscape (Theme D)		Explains the principles of quantitative and qualitative risk management theory including the role of risk stakeholders. (K46)						
	Describes	Describes the key legislative frameworks and the regulatory landscape for cyber security. (K48)						
		Explains the ethical principles and codes of good practice of at least one significant cyber security professional body and the ethical responsibilities of a cyber security professional. (K50)						
	Describes	how they lead cyber se	curity awareness cam	paigns and evaluate	their effectiveness. (S45)			
K46	K48	K50	S45					