

**NCFE Level 3 Certificate in Cyber Security Practices (603/5762/9)**

**Statement of authenticity**

Learner name:

Centre number:

Centre name:

**Signatures**

Learner: Date:

Tutor/Assessor: Date:

Internal Quality Assurer (IQA)\*: Date:

External Quality Assurer (EQA)\*: Date:

\* For completion if part, or all, of the evidence has been sampled by the Internal and/or External Quality Assurer

**Unit 01 Understand cyber security principles (A/618/0866)**

**Learning outcome 1**

**You will:** Understand cyber security

You must:

|  |  |
| --- | --- |
| **1.1 Describe the concepts of cyber security** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
|  |  |
| **IQA/EQA feedback** | |

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| **1.2 Explain the importance of cyber security** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 01 Understand cyber security principles (A/618/0866)**

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| **1.3 Describe the consequences and implications of inadequate cyber security** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
|  |  |
| **IQA/EQA feedback** | |

**Unit 01 Understand cyber security principles (A/618/0866)**

**Learning outcome 2**

**You will:** Understand core terminology and key aspects of cyber security

You must:

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| **2.1 Define core terminology used in cyber security** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **2.2 Explain the terms good actors and bad actors** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 01 Understand cyber security principles (A/618/0866)**

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| **2.3 Distinguish typical behaviours of good actors and bad actors** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **2.4 Explain the motivations of good actors and bad actors** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **2.5 Identify key sectors that are most vulnerable to a cyber-attack** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 01 Understand cyber security principles (A/618/0866)**

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| **2.6 Compare the motivations for a cyber-attack in key sectors** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **2.7 Consider how an actor may carry out a cyber-attack** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 01 Understand cyber security principles (A/618/0866)**

**Learning outcome 3**

**You will:** Understand security by design principles

You must:

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| **3.1 Describe the term security by design** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **3.2 Explore the principles of security by design** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 01 Understand cyber security principles (A/618/0866)**

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| **3.3 State the consequences of not considering cyber security during the design phas**e | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **3.4 Evaluate the advantages and disadvantages of security by design** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 02 Threat intelligence in cyber security (F/618/0867)**

**Learning outcome 1**

**You will:** Understand cyber-threat intelligence

You must:

|  |  |
| --- | --- |
| **1.1 Identify key concepts of cyber threat intelligence** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **1.2 Explain the following terms in relation to cyber security:**   * **threats** * **exploits** * **vulnerabilities** * **risk.** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 02 Threat intelligence in cyber security (F/618/0867)**

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| **1.3 Describe the threat intelligence lifecycle** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **1.4 Describe how to find out about emerging attack techniques and how to recognise them** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **1.5 Consider what could be included in Open Source Intelligence data sets** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 02 Threat intelligence in cyber security (F/618/0867)**

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| **1.6 Explain why it is important to only use reliable and valid sources of Open Source Intelligence information** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **1.7 Explain the importance of using reliable sources of information in relation to cyber security threats** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **1.8 Consider the current threat status and make possible recommendations based upon cyber-threat intelligence information** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 02 Threat intelligence in cyber security (F/618/0867)**

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| **1.9 Analyse relevant cyber threat intelligence information requirements for an organisation** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 02 Threat intelligence in cyber security (F/618/0867)**

**Learning outcome 2**

**You will:** Understand threat models

You must:

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| **2.1 Describe a range of threat models** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **2.2 Explain the steps within a threat model** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **2.3 Evaluate a threat model** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 02 Threat intelligence in cyber security (F/618/0867)**

**Learning outcome 3**

**You will:** Understand malicious software

You must:

|  |  |
| --- | --- |
| **3.1 Identify types of malicious software** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **3.2 Describe the effects of different types of malicious software on an infected system** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 02 Threat intelligence in cyber security (F/618/0867)**

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| **3.3 Describe the motives for using specific malicious software attacks** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **3.4 Identify how specific malicious software attacks are made more effective due to human factors** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 02 Threat intelligence in cyber security (F/618/0867)**

**Learning outcome 4**

**You will:** Know about social engineering

You must:

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| **4.1 Explain the term ‘social engineering’** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **4.2 Give examples of how open source intelligence can be used for social engineering** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 02 Threat intelligence in cyber security (F/618/0867)**

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| **4.3 Describe ways a social engineering attack could take place** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 03 Cyber security testing, vulnerabilities and controls (J/618/0868)**

**Learning outcome 1**

**You will:** Understand common types of testing in cyber security

You must:

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| **1.1 Explain different types of cyber security testing** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **1.2** Identify why cyber security testing is important | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 03 Cyber security testing, vulnerabilities and controls (J/618/0868)**

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| **1.3 Compare types of cyber security testing** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **1.4 Consider mitigations following cyber security testing** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **1.5 Explain why it is important to retest following any changes made** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 03 Cyber security testing, vulnerabilities and controls (J/618/0868)**

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| **1.6 Explain how the outcomes of cyber security testing can be reported** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **1.7 Explain why the outcomes of cyber security testing must be reported** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 03 Cyber security testing, vulnerabilities and controls (J/618/0868)**

**Learning outcome 2**

**You will:** Be able to reduce or remove potential cyber security vulnerabilities

You must:

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| --- | --- |
| **2.1 Identify cyber security vulnerabilities** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **2.2 Demonstrate the steps to be taken when a vulnerability has been identified** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 03 Cyber security testing, vulnerabilities and controls (J/618/0868)**

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| **2.3 Apply the correct response to the vulnerability** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **2.4 Develop an appropriate communication to mitigate future vulnerabilities** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 03 Cyber security testing, vulnerabilities and controls (J/618/0868)**

**Learning outcome 3**

**You will:** Understand controls in cyber security

You must:

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| --- | --- |
| **3.1 Identify cyber security controls** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **3.2 Explain a basic cyber security framework** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 03 Cyber security testing, vulnerabilities and controls (J/618/0868)**

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| **3.3 Evaluate a cyber security framework** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 03 Cyber security testing, vulnerabilities and controls (J/618/0868)**

**Learning outcome 4**

**You will:** Be able to apply a cyber security control

You must:

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| **4.1 Explain how to apply controls** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **4.2 Implement a basic cyber security control** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 03 Cyber security testing, vulnerabilities and controls (J/618/0868)**

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| **4.3 Justify the implementation of the chosen cyber security control** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **4.4 Explain why a control might not be applied** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 04 Cyber security incident response (L/618/0869)**

**Learning outcome 1**

**You will:** Understand what is meant by a cyber security incident response plan

You must:

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| **1.1 Describe what a cyber security incident response plan is used for** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **1.2 Explain when a cyber security incident response plan is used** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 04 Cyber security incident response (L/618/0869)**

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| **1.3 Describe the stages of a cyber security** **incident response lifecycle** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 04 Cyber security incident response (L/618/0869)**

**Learning outcome 2**

**You will:** Be able to develop a cyber security incident response plan

You must:

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| **2.1 Explain why it is important to maintain an up to date cyber security incident log** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **2.2 Explain the steps to be included within a cyber security incident response plan** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 04 Cyber security incident response (L/618/0869)**

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| **2.3 Explain why it is important to have a cyber security incident response plan** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **2.4 Develop a cyber security incident response plan for an organisation** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
|  |  |
| **IQA/EQA feedback** | |

**Unit 04 Cyber security incident response (L/618/0869)**

**Learning outcome 3**

**You will:** Be able to develop an incident post mortem report

You must:

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| **3.1 Explain what is meant by incident post mortem** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **3.2 Explain the structure of an incident post mortem** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 04 Cyber security incident response (L/618/0869)**

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| **3.3 Consider the importance of the following when carrying out an incident post mortem:**   * **integrity** * **rigor** * **discipline.** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **3.4 Create a post mortem report of an incident** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **3.5 Reflect upon the report and make recommendations based on the findings** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

### Unit 05 Understand legislation and ethical conduct within cyber security (J/618/0871)

**Learning outcome 1**

**You will:** Understand legislation relating to cyber security

You must:

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| **1.1 Describe how legislation impacts on cyber security** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **1.2 Explain trends in international law for cyberspace** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

### Unit 05 Understand legislation and ethical conduct within cyber security (J/618/0871)

**Learning outcome 2**

**You will:** Understand information security standards

You must:

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| **2.1 Identify ISO standards related to cyber security** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **2.2 Explain how ISO standards are used to support cyber security** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

### Unit 05 Understand legislation and ethical conduct within cyber security (J/618/0871)

**Learning outcome 3**

**You will:** Understand ethical conduct within cyber security

You must:

|  |  |
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| **3.1 Describe ethical conduct within cyber security** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **3.2 Identify unethical conduct within cyber security** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 06 Professional skills and behaviours for cyber security (L/618/0872)**

**Learning outcome 1**

**You will:** Understand behaviours required for a career in cyber security

You must:

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| **1.1 Explain the importance of managing and promoting a positive digital identity** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **1.2 Describe possible employee screening checks that an employer might carry out** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 06 Professional skills and behaviours for cyber security (L/618/0872)**

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| **1.3 Consider** **potential consequences** **of unsatisfactory findings as a result of employer checks** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **1.4 Describe the following security clearance levels:**   * **BPSS (Baseline Personnel Security Standard)** * **SC (Security Checked)** * **DV (Developed Vetting).** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **1.5 Explain how bias can influence cyber security** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 06 Professional skills and behaviours for cyber security (L/618/0872)**

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| **1.6 Describe the benefits of a security by design mind-set** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 06 Professional skills and behaviours for cyber security (L/618/0872)**

**Learning outcome 2**

**You will:** Be able to identify skills required for a career in cyber security

You must:

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| **2.1 Identify skills required for a career in cyber security** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **2.2 Perform a personal skills analysis** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 06 Professional skills and behaviours for cyber security (L/618/0872)**

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| **2.3 Assess own skills against those required for a career in cyber security** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **2.4 Create a personal development plan** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
|  |  |
| **IQA/EQA feedback** | |

**Unit 06 Professional skills and behaviours for cyber security (L/618/0872)**

**Learning outcome 3**

**You will:** Understand the importance of continuous professional development

You must:

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| **3.1 Explain the term continuous professional development (CPD)** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

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| **3.2 State methods of keeping up to date with industry knowledge** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |

**Unit 06 Professional skills and behaviours for cyber security (L/618/0872)**

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| **3.3 Explain why it is important to keep CPD up to date** | |
| **What have you done to show this?** | Location of evidence (eg hyperlink/portfolio page number) |
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| **IQA/EQA feedback** | |