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| **1.5 Securing data and systems** |
| * Learners should understand:   + cyber resilience as being a company’s ability to prepare, survive, respond to and recover from a cyber attack   + the potential consequences to a company of a cyber attack |

Specification points:

Skills audit:

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| **Criteria** |  |  |  |
| I can explain how networks, systems, transmitted and stored data can be protected using the following security measures:   * encryption * firewalls * antivirus software * hierarchical access levels. |  |  |  |
| I can understand what is meant by the term ‘cyber resilience’, understand the potential consequences of a cyber-attack and how to prevent them. |  |  |  |

Teacher feedback:

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Student response:

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**Exam-style questions**

1. Firewalls and Encryption are two common methods used to keep a network and its data secure.
2. Explain why firewalls are used by people accessing the internet.

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**[2]**

1. Data can be encrypted when it is sent to other people over the Internet.

Explain how encryption helps keep data secure.

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**[2]**

1. Physical security of data is just as important as digital security.
2. Describe **one** biometric method that can be used to authenticate a person’s identity when they are trying to enter a building or log on to a computer system.

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**[2]**

1. List **three** physical controls that can be used to prevent unauthorised people from entering a computer network room.

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2…………………………………………………………………………………………………………………..

3…………………………………………………………………………………………………………………..

**[3]**