

SQA Advanced Unit specification

General information

Unit title: Bring Your Own Device (BYOD): Introduction
(SCQF level 7)

Unit code: HR9P 47

Superclass: CC

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Source: Scottish Qualifications Authority

Version: 01

Unit purpose

The content of this Unit is aimed at providing candidates with a basic knowledge and understanding of the essential components of Bring Your Own Device (BYOD) systems and how these can be implemented within an organisational environment.

Outcomes

On successful completion of the Unit the learner will be able to:

- 1 Identify and describe the key components required for effective mobile device management within an organisational environment.
- 2 Devise a BYOD policy for use in an organisational environment.
- 3 Devise a BYOD security strategy for a small to medium sized enterprise.

Credit points and level

1 SQA Credit at SCQF level 7: (8 SCQF credit points at SCQF level 7)

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Recommended entry to the Unit

Access to this Unit will be at the discretion of the Centre. There are no specific requirements but candidates would benefit from knowledge of server operating systems, as well as the basic concepts of computer networking, the internet and associated services. This Unit is available as part of the SQA Advanced Certificate/SQA Advanced Diploma in Computing: Networking awards.

Core Skills

Opportunities to develop aspects of Core Skills are highlighted in the Support Notes for this Unit specification.

There is no automatic certification of Core Skills or Core Skill components in this Unit.

Context for delivery

If this Unit is delivered as part of a Group Award, it is recommended that it should be taught and assessed within the subject area of the Group Award to which it contributes.

Equality and inclusion

This Unit specification has been designed to ensure that there are no unnecessary barriers to learning or assessment. The individual needs of learners should be taken into account when planning learning experiences, selecting assessment methods or considering alternative evidence.

Further advice can be found on our website www.sqa.org.uk/assessmentarrangements.

Unit specification: Statement of standards

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Acceptable performance in this Unit will be the satisfactory achievement of the standards set out in this part of the Unit specification. All sections of the statement of standards are mandatory and cannot be altered without reference to SQA.

Where evidence for Outcomes is assessed on a sample basis, the whole of the content listed in the Knowledge and/or Skills section must be taught and available for assessment. Learners should not know in advance the items on which they will be assessed and different items should be sampled on each assessment occasion.

Outcome 1

Identify and describe the key components required for effective mobile device management within an organisational environment.

Knowledge and/or Skills

- ◆ Key components required for effective mobile device management.
- ◆ Features of contemporary Mobile Device Management (MDM) systems

Outcome 2

Devise a BYOD policy for use in an organisational environment.

Knowledge and/or Skills

- ◆ Key elements of a BYOD policy
- ◆ BYOD policy for a small to medium sized enterprise

Outcome 3

Devise a BYOD security strategy for a small to medium sized enterprise.

Knowledge and/or Skills

- ◆ Key elements of a security strategy for a small to medium sized enterprise
- ◆ BYOD security strategy for a small to medium sized enterprise

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Evidence Requirements for this Unit

Learners will need to provide evidence to demonstrate their Knowledge and/or skills across all Outcomes by showing that they can:

Outcome 1 — Create and deliver a suitable presentation in which the key components required for effective mobile device management and features of contemporary MDM systems are outlined and briefly described. The presentation can be produced using any suitable tools/media.

Outcome 2 — Produce a BYOD policy document for a given scenario relating to a small to medium sized enterprise.

Outcome 3 — Produce a report that demonstrates a knowledge and understanding of the issues involved in devising a suitable BYOD security strategy for a given scenario relating to a small to medium sized enterprise.

Unit Support Notes

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Unit Support Notes are offered as guidance and are not mandatory.

While the exact time allocated to this Unit is at the discretion of the centre, the notional design length is 40 hours.

Guidance on the content and context for this Unit

The content of this Unit is aimed at providing the candidate with an elementary knowledge and understanding of the essential components of Bring Your Own Device (BYOD) solutions.

There are three Outcomes within this Unit each of which is designed to introduce the candidate to different aspects of BYOD technologies:

- 1 Identify and describe the key components required for effective mobile device management within an organisational environment.
 - ◆ Areas covered should include procurement and provisioning, configuration management, compliance and enforcement, identity management, authentication and encryption, enterprise app-store and software distribution, user activity logging and workplace monitoring, security settings, selective wipe and remote wipe.
- 2 Devise a BYOD policy for use in an organisational environment.
 - ◆ Areas covered should include acceptable use, platform support, managing device capabilities, reimbursement, liabilities and disclaimers, security and risks.
- 3 Devise a BYOD security strategy for a small to medium sized enterprise.
 - ◆ Areas covered should include basic device management, allowed devices, allowed operating systems, allowed applications, allowed employees, access requirements and control, user education and training, device and user inventory, on-going monitoring and review.

Although the Unit is expressed in generic terms, it should be related to a real world context that will be familiar to candidates.

This Unit contains underpinning knowledge for aspects of a variety of Units in the Modern and Technical Apprenticeship standards for Information and Communication Technologies Professionals which are available on the e-Skills UK website

<http://www.e-skills.com/apprenticeships/frameworks/information-and-communication-technologies-professionals-scotland/>

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Guidance on approaches to delivery of this Unit

During the delivery of this Unit it is important that every opportunity is taken to introduce real-world case studies, opportunities for whole-class and group discussion and practical demonstrations wherever possible.

Concepts and terminology should be presented in context throughout the Unit. Use of contemporary educational resources (such as YouTube) should be used where appropriate for providing supplementary information or as a focus for class discussion. Wherever possible theoretical learning should be re-enforced using practical demonstrations (for example to demonstrate the use of specific tools).

Given the theoretical nature of this Unit, it is intended that a proportionate amount of time will be made available as a central part of the course for revision, tutorials and formative assessment exercises. Candidates should be strongly encouraged to undertake further reading and opportunities for individual or group research should be provided.

To elucidate the underlying theory contained within the Unit candidates should be exposed to contemporary BYOD products and technologies.

Guidance on approaches to assessment of this Unit

Assessment for this Unit should take the form of three individual but related pieces of work comprising a presentation, a BYOD policy document and an overall BYOD strategy report.

Outcome 1

Outcome one is aimed at introducing the candidates to the key components of BYOD systems. The assessment for this Outcome requires candidates to create and deliver a suitable presentation in which the key components required for effective mobile device management and features of contemporary MDM systems are outlined and briefly described. The presentation can be produced using any suitable tools/media.

Outcome 2

Outcome two requires the candidates to produce a BYOD policy document for a given scenario relating to a small to medium sized enterprise. The scenario will be open to centres to devise but as a minimum should encompass a multi-platform approach including at least one preferred laptop, tablet and phone. The document produced for this Outcome can be included as an appendix to the report generated in Outcome 3.

Outcome 3

Outcome three requires candidates to produce a recommended BYOD strategy for a given scenario relating to a small to medium sized enterprise. This will synthesise the knowledge and understanding acquired in Outcomes one and two into a detailed recommended BYOD strategy. The report should be approximately 1000 words in length.

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The presentation generated for Outcome one should provide evidence that the candidate has gained a basic knowledge and understanding of the technologies underlying BYOD approaches and of the features of contemporary BYOD products.

The BYOD policy and related strategy document generated for Outcomes two and three respectively should provide evidence that the candidate has gained a basic knowledge and understanding of the issues involved in devising BYOD procedures and strategies as they relate to small to medium sized enterprises.

Evidence can be generated using different types of assessment. The following are suggestions only. There may be other methods that would be more suitable to learners.

Centres are reminded that prior verification of centre-devised assessments would help to ensure that the national standard is being met. Where learners experience a range of assessment methods, this helps them to develop different skills that should be transferable to work or further and higher education.

Opportunities for e-assessment

E-assessment may be appropriate for some assessments in this Unit. By e-assessment we mean assessment which is supported by Information and Communication Technology (ICT), such as e-testing or the use of e-portfolios or social software. Centres which wish to use e-assessment must ensure that the national standard is applied to all learner evidence and that conditions of assessment as specified in the Evidence Requirements are met, regardless of the mode of gathering evidence. The most up-to-date guidance on the use of e-assessment to support SQA's qualifications is available at:
www.sqa.org.uk/e-assessment.

Opportunities for developing Core and other essential skills

There is no automatic certification of Core Skills or Core Skill components in this Unit.

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History of changes to Unit

Version	Description of change	Date

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SQA acknowledges the valuable contribution that Scotland's colleges have made to the development of SQA Advanced Qualifications.

FURTHER INFORMATION: Call SQA's Customer Contact Centre on 44 (0) 141 500 5030 or 0345 279 1000. Alternatively, complete our [Centre Feedback Form](#).

General information for learners

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This section will help you decide whether this is the Unit for you by explaining what the Unit is about, what you should know or be able to do before you start, what you will need to do during the Unit and opportunities for further learning and employment.

The content of this Unit is aimed at providing you with a basic knowledge and understanding of the essential components of Bring Your Own Device (BYOD) systems and the procedures and strategies developed by organisations wishing to introduce these.

Outcome 1 introduces you to the underlying technologies and building blocks of BYOD systems. You will be required to produce a presentation as evidence of your knowledge and skills.

Outcome 2 examines contemporary BYOD policies developed and adopted by organisations. You will be required to produce a BYOD policy document for a small to medium size enterprise as evidence of your knowledge and skills.

Outcome 3 examines contemporary BYOD strategies being developed and adopted by organisations. You will be required to produce a written report of approximately 1000 words outlining a BYOD strategy for a small to medium sized enterprise. The BYOD policy document created in Outcome 2 is a specific output of a BYOD strategy and can be included as an appendix to the report generated in Outcome 3.

Upon completion of the Unit, you should be able to:

- 1 Identify and describe the key components required for effective mobile device management within an organisational environment.
- 2 Devise a BYOD policy for use in an organisational environment.
- 3 Devise a BYOD security strategy for a small to medium sized enterprise.