



National Unit specification: general information

Unit title: Mobile Technology: Project (SCQF level 6)

Unit code: H2PA 12

Superclass: AF

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Summary

This Unit allows candidates to plan, implement and evaluate a project relative to mobile technology systems. Candidates will be required to produce a project in response to a given brief. The project should be completed by individual candidates, but the production of evidence may involve working collaboratively with others.

This Unit is designed to promote synthesis of knowledge and skills and to give candidates the opportunity to develop key skills such as planning, communication, problem solving and time management.

This is a mandatory Unit within the National Progression Award (NPA) in Mobile Technology (SCQF level 6), but is also available as a freestanding Unit.

Outcomes

- 1 Produce a plan for a mobile technology project from a negotiated brief.
- 2 Implement the mobile technology project plan.
- 3 Evaluate the completed mobile technology project.

Recommended entry

While entry is at the discretion of the centre, it would be beneficial if candidates had previously achieved one of the following Units, or equivalent:

H1T1 11 *Mobile Technology Systems*
FW02 11 *Computer Systems Architecture*

General information (cont)

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Credit points and level

1 National Unit credit at SCQF level 6: (6 SCQF credit points at SCQF level 6*)

**SCQF credit points are used to allocate credit to qualifications in the Scottish Credit and Qualifications Framework (SCQF). Each qualification in the Framework is allocated a number of SCQF credit points at an SCQF level. There are 12 SCQF levels, ranging from Access 1 to Doctorates.*

Core Skills

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

Opportunities to develop aspects of Core Skills are highlighted in the support notes of this Unit specification.

National Unit specification: statement of standards

Unit title: Mobile Technology: Project (SCQF level 6)

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.

Outcome 1

Produce a plan for a mobile technology project from a negotiated brief.

Performance Criteria

- (a) Select a suitable project in response to a negotiated brief.
- (b) Identify the key tasks required to implement the project.
- (c) Identify the resources required to complete the project.
- (d) Identify the key timescales and review dates of the project.
- (e) Identify the end product(s) of the project.

Outcome 2

Implement the mobile technology project plan.

Performance Criteria

- (a) Carry out the key tasks identified in the mobile technology project plan.
- (b) Use the resources appropriately in accordance with the project plan.
- (c) Review the progress of the project plan at agreed review dates.
- (d) Maintain a concise record of the implementation process with appropriate ICT software.

Outcome 3

Evaluate the completed mobile technology project.

Performance Criteria

- (a) Identify strengths and areas for improvement in the project plan.
- (b) Identify strengths and areas for improvement in the implementation of the project.
- (c) Identify action points to improve the planning and implementation of future mobile technology projects.

National Unit specification: statement of standards (cont)

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Evidence Requirements for this Unit

Evidence is required to demonstrate that candidates have achieved all Outcomes and Performance Criteria.

Candidates must demonstrate understanding of the various phases of the project which should include planning, implementation and evaluation across the complete life cycle of the project.

Outcome 1

For Outcome 1, evidence generated under supervised open-book conditions is required, which demonstrates that candidates can produce a plan for a mobile technology project, in response to a negotiated brief. The plan must be realistic, clearly structured and must identify:

- ◆ what candidates propose to do
- ◆ how they intend to achieve it
- ◆ what resources are required
- ◆ when key tasks will be carried out

The negotiated project plan will influence the level of work that candidates must undertake to achieve a successful end product. The project plan must therefore be broad in design to reflect this phase of the Systems Development Life Cycle (SDLC).

The completed planning proposal will be submitted to the assessing tutor for approval before commencing to Outcome 2.

Outcome 2

For Outcome 2, product or design evidence (ie the end product(s) discussed during the planning phase) will be required to show that the candidate has completed the implementation phase of the project. The format of this evidence will depend on the nature of the mobile technology project and the intended end product(s). Assessors should use a checklist to record progress through each of the Performance Criteria. This progress should be supervised under open-book conditions.

Additional written evidence in the form of a brief log (or a simple logbook) will be required to show that candidates have:

- ◆ recorded concise details of progress through the implementation process (using an appropriate ICT application)
- ◆ recorded any amendments to that agreed at the planning phase (Outcome 1)

National Unit specification: statement of standards (cont)

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Outcome 3

For Outcome 3, evidence generated under supervised open-book conditions is required, which identifies:

- ◆ what candidates set out to achieve
- ◆ what they actually achieved
- ◆ at least one action point to improve future mobile technology project planning
- ◆ at least one action point to improve the implementation of future mobile technology projects

National Unit specification: support notes

Unit title: Mobile Technology: Project (SCQF level 6)

This part of the Unit specification is offered as guidance. The support notes 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

It is expected that by timetabling this Unit for delivery in the later part of the academic year, candidates will have gained suitable knowledge, skills, experience and confidence with which to carry out the requirements effectively.

This is a mandatory Unit within the NPA in Mobile Technology (SCQF level 6), but is also available as a freestanding Unit. It is intended that delivery of the Unit give candidates the opportunity to use existing and new skills, and knowledge and understanding developed through the successful completion of the other Units within the NPA. Ideally, the project should be based on the content of the Units within the associated NPA.

Guidance on learning and teaching approaches for this Unit

Candidates will find it helpful in understanding how they might approach this Unit if they are given realistic examples of acceptable and achievable mobile technology projects. SMART analysis may assist candidates to produce a plan for an achievable project.

Acceptable/achievable projects will be those which:

- ◆ contain complex elements in the planning, implementation and evaluation
- ◆ contain a controllable plan and/or a manageable set of resources
- ◆ combine a manageable range of knowledge and skills from other Units
- ◆ encourage the candidate to perform non-routine tasks

Unacceptable/unachievable projects will be those which:

- ◆ have very basic planning, implementation and evaluation
- ◆ have an over complicated plan/set of resources
- ◆ replicate the Evidence Requirements for another Unit

Project plans by definition have phases with start and end dates. Beyond these criteria, it may not be suitable for centres to structure this Unit too rigidly. The resources of centres may prohibit delivery of the Unit should the project be too tightly designed.

The serving modules (architecture, security, programming, etc) will influence the project and as such, examples may vary from centre to centre.

National Unit specification: support notes (cont)

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Guidance on approaches to assessment for this Unit

The project should involve producing a piece of work which takes account of technological and legislative considerations (eg appropriate security, media and 'health and safety' considerations) centred on mobile technology.

To ensure that candidates provide a structured and achievable plan, it is recommended that they successfully complete Outcome 1 before being allowed to progress to Outcome 2. Collaborative discussion with the Unit tutor, at the first stage of the project will influence the success of later stages, such as evaluation.

The evidence should be documented and recorded electronically. It could be produced using word processing, spreadsheet, project planning or other appropriate software.

Candidates will benefit from formative exercises in the initial stages of the Unit to establish strengths and weaknesses for planning, communication, problem solving, time management, creative thinking and goal setting.

While there may be multiple solutions to the project plan, the plan should be logical and easy to follow. The use of a pro forma may help candidates focus their ideas and encourage efficiency.

Candidates should be required to report to the assessor at the interim stage with a summary of progress and agreement should be reached for continuation of the project using the revised plan, if required.

Candidates should be encouraged to use ICT software to support and submit the production of evidence throughout each phase of the project.

Candidates should seek guidance regarding acceptable use of equipment in the course of producing the evidence and operate within the parameters of centre policies and health and safety procedures.

Time should be allowed for any necessary re-assessment.

Opportunities for the use of 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 e-checklists. Centres which wish to use e-assessment must ensure that the national standard is applied to all candidate evidence and that conditions of assessment as specified in the Evidence Requirements are met, regardless of the mode of gathering evidence. Further advice is available in *SQA Guidelines on Online Assessment for Further Education (AA1641, March 2003)*, *SQA Guidelines on e-assessment for Schools (BD2625, June 2005)*.

National Unit specification: support notes (cont)

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Opportunities for developing Core Skills

In this Unit, candidates will develop skills in providing and justifying the specification for a mobile technology project to a negotiated brief. They will also produce a report on current and future trends of mobile technologies using up-to-date ICT software.

As candidates undertake this Unit, the task above may provide opportunities to develop aspects of the Core Skills of *Problem Solving, Communication, Information and Communication Technology* and *Numeracy*.

Disabled candidates and/or those with additional support needs

The additional support needs of individual candidates should be taken into account when planning learning experiences, selecting assessment instruments, or considering whether any reasonable adjustments may be required. Further advice can be found on our website www.sqa.org.uk/assessmentarrangements

History of changes to Unit

Version	Description of change	Date

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