



**Group Award
Specification for:**

**National Certificate in
Mobile Technology**

at SCQF level 5

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1 Introduction

This is the Group Award Specification for the National Certificate (NC) in Mobile Technology at SCQF level 5, which was validated in October 2012. This document includes: background information on the development of the Group Award, its aims, guidance on access, details of the Group Award structure, and guidance on delivery. The NC has been developed under the Design Principles for National Certificates.

The NC enhances the curricular provision of mobile technology within the disciplines of computing, information technology, business and other vocational areas. The award engages candidates through a hands-on approach, facilitating experiential learning through both delivery and assessment. The assessment methods are designed to challenge the abilities of learners and allow achievement to be recognised and measured.

The award can be used to meet the vocational needs of those already in employment in a range of industries, seeking to enhance their employability and pursue opportunities within their existing area.

2 Rationale for the development of the Group Award

The use of mobile technology has had a profound change on society over the past decade and this change is continuing with the creation of new and innovative applications for mobile devices. Mobile technology is dynamic and new developments in hardware and software are coming into the marketplace at a fast pace. The challenge for individuals and education is to try and keep up with the rapid pace of change.

Following a perceived gap in specialist provision information was pulled together from various sources including the Sector Skills Council and Scotland's Digital Future: A Strategy for Scotland. As a result, a Qualification Design Team (QDT) was formed to create a qualification at SCQF level 5. The framework was developed to meet the demands of individuals and industry by QDT members from the Further Education sector. Primary research was carried out through surveying delivering centres in Scotland, universities, representatives from SQA, representatives from industry and students.

Market research and analysis identified that the proposed award would provide existing and new markets with opportunities to:

- ◆ Widen participation.
- ◆ Provide a range of transferable skills.
- ◆ Provide for 16–24 age group recruitment targets.
- ◆ Offer retraining opportunities for adult returners.
- ◆ Engage employers.
- ◆ Integrate with different disciplines.

Mobile Technology Courses and Units are now appearing at degree level, eg the University of Glasgow offers Mobile and Ubiquitous Systems (Msc) and the University of Central Lancashire offers an ordinary degree in Mobile Interactive Technology. The proposal to develop a new qualification at SCQF level 5 provides an entry point at intermediate level and route of progression from the NPAs in Mobile Technology at SCQF levels 4 and 5. The NC at SCQF level 5 incorporates Units from the NPAs. This allows smooth progression and the ability to cater for different candidate groups.

3 Aims of the Group Awards

The NC develops knowledge and skills in mobile technologies, Core Skills and provides a pathway to appropriate higher level programmes.

3.1 Principal aims of the Group Award

- ◆ The principal aims of the NC at SCQF level 5 are:
 - to further develop knowledge and skills in the use of mobile devices
 - to develop knowledge and practical skills related to mobile technology development
 - to develop knowledge and awareness of current and future trends in mobile technology
 - to develop knowledge and understanding of device connectivity to connect, configure and troubleshoot mobile devices
 - to develop knowledge of design considerations of web pages for mobile devices
 - to develop knowledge of the principles of mobile application development and design, testing and implementation
 - to develop knowledge of the structure and specifications of different mobile systems
 - to develop practical skills in the creation and editing of multimedia elements
 - to allow candidates to combine knowledge and practical skills to develop and implement a mobile technology project
 - to prepare candidates for progression to further qualifications at a higher level

3.2 General aims of the Group Award

The general aims of the NC at SCQF level 5 are to:

- ◆ Provide an award structure which is sufficiently flexible to allow for different modes of delivery and target groups.
- ◆ Provide candidates, through the use of optional Units, with opportunities to expand their skills and knowledge in other related disciplines.
- ◆ Develop generic transferable skills.
- ◆ Allow candidates to see progression and achievement timeously.
- ◆ Encourage candidates to take charge of their own learning and development.

3.3 Target groups

- ◆ 16–24 age group recruitment targets
- ◆ adult returners seeking retraining
- ◆ employees in the industry seeking formal qualifications

3.4 Employment opportunities

Candidates completing these Group Awards will gain skills suitable for entry level employment in a wide range of ICT based fields including mobile technology, multimedia, computing and business.

4 Access to the Group Awards

4.1 Access to the NC at SCQF level 5

While entry is at the discretion of the centre, it would be useful for candidates to possess the NPA in Mobile Technology at SCQF level 4 or any other appropriate qualifications at SCQF level 4. An interest in using mobile technology and experience of IT would be beneficial. Recommended entry levels of Core Skills, are given below for guidance purposes:

- ◆ Communication SCQF level 4
- ◆ Information and Communication Technology SCQF level 4
- ◆ Numeracy SCQF level 4
- ◆ Problem Solving SCQF level 4
- ◆ Working with Others SCQF level 4

4.2 Alternative arrangements

The presenting centre may operate alternative access arrangements in cases where the candidate has the required competences in a given area. These arrangements are as follows:

- ◆ Assessment on demand
- ◆ Credit transfer
- ◆ Accreditation of prior learning

5 Group Award structure

5.1 Framework

A total of 12 SQA credits (72 SCQF credit points in total, 42 at SCQF level 5 and 30 at SCQF level 6) are required to gain the NC. Eight credits are required from the mandatory Units, and four from the optional Units.

Unit title	Code	SCQF credit points	SCQF level	SQA credit value
Mandatory Units — 8 SQA credits required				
Mobile Technology Systems	H1T1 11	6	5	1
Mobile Technology and Personal Computer Applications	H2P2 11	6	5	1
Mobile Technology: Device Connectivity	H2P7 11	6	5	1
Communication or Literacy	F3GB 11 H23W 75	6 6	5 5	1 1
Mobile Technology Architecture	H2P9 12	6	6	1
Mobile Technology: Media	H2TN 12	6	6	1
Mobile Technology: Security and	H2PB 12	6	6	1

Peripherals				
Mobile Technology: Project	H2PA 12	6	6	1

Optional Units (candidates must complete a further 4 SQA credits)

Optional group 1

Unit title	Code	SCQF credit points	SCQF level	SQA credit value
Optional Units — 1 SQA credit required				
Mobile Technology: Web Page Creation	H1T2 11	6	5	1
Programming for Mobile Devices	H2P5 11	6	5	1

Optional group 2

Unit title	Code	SCQF credit points	SCQF level	SQA credit value
Optional Units — 1 SQA credit required				
Mobile Technology: Web Page Creation	H2PD 12	6	6	1
Programming for Mobile Devices	H2TM 12	6	6	1

Optional group 3

Unit title	Code	SCQF credit points	SCQF level	SQA credit value
Optional Units — 2 SQA credits required				
Mobile Game Development	FN8X 11	6	5	1
Social Software	DW7J 11	6	5	1
Mathematics for Interactive Computing	FN84 11	6	5	1
Computing: Digital Media Elements for Applications	F1KS 11	6	5	1
Fundamental Electronics	F5DH 11	6	5	1
Combinational Logic	F5HA 11	6	5	1

5.2 Mapping information

The Group Awards have been mapped to the National Occupational Standards for IT Users created by e-skills in Appendix 1. In Appendix 2 the Group Awards have been mapped to the Core Skills framework.

5.3 Articulation, professional recognition and credit transfer

The NC will help prepare candidates for employment and will enhance job opportunities for those already in employment. Appendix 3 shows one possible progression route from the NC Mobile Technology at SCQF level 5 to the HNC Computing.

5.4 Conditions of Award

Candidates will be awarded the NC on completion of a total of 12 SQA credits (72 SCQF credit points). Eight credits are required from the mandatory Units and four from the optional Units. From the optional, one credit is required from optional group 1, one credit from optional group 2 and two credits are required from optional group 3. The balance of the NC will always be such that the majority of credits are at SCQF level 5, with some also at SCQF level 6.

5.5 Core Skills

Opportunities to develop aspects of the Core Skills are identified in Appendix 2, with opportunities to develop all five Core Skills within the NC. The Communication Core Skills Unit at SCQF level 5 is mandatory and Mathematics for Interactive Computing at SCQF level 5 is an optional Unit, which provides embedded Numeracy Core Skills components.

Within the mandatory Unit *Mobile Technology and Personal Computer Applications*, the Core Skill of ICT is embedded and certificated at SCQF level 5. The Numeracy component Using Graphical Information at SCQF level 5, is also embedded in this Unit.

Within the mandatory Unit *Mobile Technology: Architecture* the Numeracy component Using Number is embedded. This means candidates achieving the NC in Mobile Technology at SCQF level 5 will also be certificated for the complete Core Skills of ICT and Numeracy.

5.6 National Occupational Standards

Content of the NC is broadly aligned to National Occupational Standards for IT Users V3, from the Sector Skill Council e-skills UK. This is to help ensure that candidates are provided with the required knowledge and skills for employment in the workplace (see Appendix 1).

6 Approaches to delivery and assessment

6.1 Content and context

Mobile technology is a dynamic area and regular new developments in hardware and software come into the marketplace with the creation of new applications and devices. The challenge for education is to try and keep up with the rapid pace of change, which is part of the ethos underpinning the NC.

The Mobile Technology NPAs at SCQF levels 5 and 6 can be integrated into delivery of the National Certificate programme. Prior completion of the Mobile Technology NPA at SCQF level 4 will ensure smooth progression for candidates.

6.2 Delivery and assessment

The NC facilitates flexible delivery and assessment, which is intended to be of a practical nature wherever possible, reflecting the practical nature of mobile technology. The delivery of Units should occur mainly in a practical environment and allow candidates to build their skills over the timeframe of delivery. The underpinning knowledge within the Units should be contextualised as far as possible in order that candidates can then incorporate the learning into their practical application.

Delivery of the Units within the NC should not necessarily be done in isolation as Units can relate with the knowledge, skills and experiences developed in others. Therefore, it would be beneficial for a course leader to be identified prior to delivery to ensure that those involved in delivering different areas of the NC communicate with each other about their delivery and timings. This approach will enable a coherent and best value experience for the candidates who will be able to understand the links between the Units, which should be reinforced by all staff involved in the delivery. There are opportunities for integrated learning and assessment across the Units and wherever possible a holistic approach should be taken to the delivery and assessment.

Delivery models will be dependent on centres and their client groups. For example, Units could be offered to part-time candidates working full-time in industry and attending college in the evening. The flexibility of the NC means that it could be delivered in conjunction with the NPAs for candidates who have a particular interest in a Mobile Technology area.

Contextualisation of Unit delivery should take place if Units are being delivered in vocational areas, eg

- ◆ Downloading and running apps which relate to vocational areas. An example would be downloading GPX files onto a satnav device for candidates who play sport.
- ◆ Report writing in some Units can be taught and assessed along with Communication.
- ◆ Combine aspects of Mobile Technology Systems with Mobile Technology: Device Connectivity when delivering and assessing.

6.2.1 Sequence of delivery

For the NC in Mobile Technology at SCQF level 5, an exemplar schedule of delivery is given below, showing eight mandatory Units, two chosen mandatory/optional Units and two optional Units.

Exemplar Delivery of NC in Mobile Technology (2 semesters)				
Day	Unit code	Unit title	Weeks	Mandatory/optional
Semester 1				
1	H1T1 11	Mobile Technology Systems (level 5)	1–16	M
	H2P2 11	Mobile Technology and Personal Computer Applications (level 5)	1–16	M
	H2P7 11	Mobile Technology: Device Connectivity (level 5)	1–16	M
2	F3GB 11	Communication (level 5)*	1–16	M
	H2P9 12	Mobile Technology Architecture (level 6)	1–16	M
	H2PB 12	Mobile Technology: Security and Peripherals (level 6)	1–16	M

Exemplar Delivery of NC in Mobile Technology (2 semesters)				
Day	Unit code	Unit title	Weeks	Mandatory/ optional
Semester 2				
1	H2TN 12	Mobile Technology: Media (level 6)	17–32	M
	H1T2 11	Mobile Technology: Web Page Creation (level 5)**	17–32	O
	H2PD 12	Mobile Technology: Web Page Creation (level 6)**	17–32	O
	DW7J 11	Social Software (level 5)	17–32	O
2	H2PA 12	Mobile Technology: Project (level 6)	17–32	M
	F5DH 11	Computing Digital Media Elements for Applications (level 5)	17–32	O
	F3GB 11	Communication (level 5)	17–32	M
	H2P9 12	Mobile Technology Architecture (level 6)	17–32	M

*Delivery of F3GB 11 *Communication* is integrated and delivered over the whole session. This is beneficial to the development of group working skills and is more effective in terms of planning an event.

**The NC programme given above is just one possible combination of Units. Each centre can offer a different combination of Units with a bias in a particular direction, depending on their knowledge and expertise and options chosen. The choice and number of additional Units selected could influence possible progression routes.

6.2.2 Integration of assessment

Where possible, centres can integrate delivery and assessment of Units in order to reduce the burden both on candidates in terms of producing work, and on teaching staff in terms of marking. Examples of Units which can be delivered together, with some integration of assessment are:

Mobile Technology Systems (level 5) Mobile Technology: Device Connectivity (level 5) Mobile Technology: Security and Peripherals (level 6)
Communication (level 5) Social Software (level 5) Mobile Technology Architecture (level 6)
Mobile Technology: Web Page Creation (level 5)** Mobile Technology: Web Page Creation (level 6)**
Mobile Technology: Media (level 6) Computing Digital Media Elements for Applications (level 5)

Further assessment information is available in individual Unit specifications.

6.3 Open learning

Although not specifically designed as an online course or open learning programme, the nature of mobile technology lends itself to flexible delivery, e-learning and e-assessment for aspects of certain Units, eg candidates could submit formative or summative assessments via mobile technology devices.

Where e-assessment is used, centres must consider how they will ensure the authentication of candidate evidence. This can be achieved through a variety of methods such as discussion, video or an approved employer or other responsible person who can verify the candidate work.

Where possible, candidates should be able to use their mobile devices and be exposed to other devices which can be supplied by the centre. They should be encouraged to use online manuals and other support mechanisms such as helpdesks. These resources can be used to support candidates in an open learning environment and will encourage independent learning.

7 General information for centres

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.

Internal and external verification

All Instruments of Assessment used within these Group Awards should be internally verified, using the appropriate policy within the centre and the guidelines set by SQA.

External verification will be carried out by SQA to ensure that internal assessment is within the national guidelines for these qualifications.

Further information on internal and external verification can be found in *SQA's Guide to Assessment* (www.sqa.org.uk).

8 General information for candidates

Mobile technology is a dynamic area and regular new developments in hardware and software come into the marketplace with the creation of new applications and devices. The challenge for many is to try and keep up with the rapid pace of change, which the NC in Mobile Technology can help you to do.

The NC will provide you with a breadth of knowledge and skills in mobile technology. The NC contains eight mandatory Units, including Communication Core Skill at SCQF level 5, with an additional four optional Units required (options will depend on what is offered at your centre). The mandatory Units are designed in order to:

- ◆ give you practical experience of using different mobile devices
- ◆ provide you with the opportunity to use operating systems and applications on mobile devices
- ◆ provide you with the knowledge and understanding of different mobile technology systems and specifications
- ◆ provide you with a knowledge and understanding of connection methods for mobile devices
- ◆ provide you with an opportunity to troubleshoot connectivity problems with mobile devices
- ◆ provide you with the knowledge and understanding of mobile device security methods and peripheral devices
- ◆ provide you with an opportunity to use mobile technology media
- ◆ give you the opportunity to plan, implement and evaluate a mobile technology project
- ◆ allow you to investigate future trends in mobile technology
- ◆ prepare you for entry into further qualifications at a higher level

Undertaking the NC will allow you to develop:

- ◆ employability skills
- ◆ listening skills
- ◆ problem solving skills
- ◆ team working skills
- ◆ adaptability
- ◆ flexibility
- ◆ planning skills

The Units, which are at SCQF levels 5 and 6, are mostly practical and a range of assessment approaches will include:

- ◆ candidate logbooks
- ◆ evidence of practical work
- ◆ reports
- ◆ short response questions
- ◆ projects

It would be an advantage for you to have some experience of computing at SCQF level 4 or a qualification such as the NPA in Mobile Technology at SCQF level 4.

8.1 Progression pathways

Collectively, the Mobile Technology NPAs and the NC can lead to further study across a range of vocational areas including:

- ◆ computing
- ◆ information technology
- ◆ business
- ◆ administration
- ◆ multimedia

9 Glossary of terms

SCQF: This stands for the Scottish Credit and Qualification Framework, which is a new way of speaking about qualifications and how they inter-relate. We use SCQF terminology throughout this guide to refer to credits and levels. For further information on the SCQF visit the SCQF website at www.scqf.org.uk

SCQF credit points: One SCQF credit point equates to 10 hours of learning. NQ Units at SCQF levels 2–6 are worth 6 SCQF credit points, NQ Units at level 7 are worth 8 SCQF points.

SCQF levels: The SCQF covers 12 levels of learning. National Qualification Group Awards are available at SCQF levels 2–6 and will normally be made up of National Units which are available from SCQF levels 2–7.

Dedicated Unit to cover Core Skills: This is a non-subject Unit that is written to cover one or more particular Core Skills.

Embedded Core Skills: This is where the development of a Core Skill is incorporated into the Unit and where the Unit assessment also covers the requirements of Core Skill assessment at a particular level.

Signposted Core Skills: This refers to the opportunities to develop a particular Core Skill at a specified level that lie outwith automatic certification.

Qualification Design Team: The QDT works in conjunction with a Qualification Manager/Development Manager to steer the development of the National Certificate/National Progression Award from its inception/revision through to validation. The group is made up of key stakeholders representing the interests of centres, employers, universities and other relevant organisations.

Consortium-devised National Certificates/National Progression Awards are those developments or revisions undertaken by a group of centres in partnership with SQA.

10 Appendices

Appendix 1: National Occupational Standards

Appendix 2: Core Skills Map

Appendix 3: Possible Progression Route

Appendix 1 — National Occupational Standards

National Occupational Standards for IT Users V3

Areas of competence

Core

IPU: Improving productivity using IT

Using IT systems

IUF: FS IT user fundamentals

SIS: Set up an IT system

OSP: Optimise IT system performance

ITS: IT security for users

Using IT to find and exchange information

ICF: FS IT communication fundamentals

INT: Using the internet

UMD: Using mobile IT devices

EML: Using e-mail

PIM: Personal information management software

UCT: Using collaborative technologies

Using productivity tools and applications

ISF: FS IT software fundamentals

AV: Audio and Video Software

BS: Bespoke or specialist software

CAS: Computerised accounting software

DB: Database software

DMS: Data management software

DIS: Design and imaging software

DPS: 2D Drawing and planning software

DTP: Desktop Publishing Software

MM: Multimedia software

PS: Presentation software

PM: Project management software

SS: Spreadsheet software

WS: Website software

WP: Word processing software

Mapping of National Occupational Standards to Units

Unit title	NOS Titles — Areas of Competence																									
	Core	Using IT Systems				Using IT to find and exchange information						Using productivity tool and applications														
	IPU	IUF: FS	SIS	OSP	ITS	ICF: FS	INT	UMD	EML	PIM	UCT	ISF: FS	AV	BS	CAS	DB	DMS	DIS	DPS	DTP	MM	PS	PM	SS	WS	WP
Mandatory Units																										
Mobile Technology Systems (level 5)	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓														
Mobile Technology and Personal Computer Applications (level 5)	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓										✓		✓		✓
Mobile Technology: Device Connectivity (level 5)	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓													
Communication																										
Mobile Technology Architecture (level 6)			✓	✓		✓	✓	✓																		
Mobile Technology: Media (level 6)	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓				✓				✓				
Mobile Technology: Security and Peripherals (level 6)	✓	✓	✓	✓	✓	✓	✓	✓			✓			✓												
Mobile Technology: Project (level 6)	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓				✓			✓		✓	✓		✓

Mapping of National Occupational Standards to Units

Unit title	NOS Titles — Areas of Competence																									
	Core	Using IT Systems				Using IT to find and exchange information						Using productivity tool and applications														
	IPU	IUF: FS	SIS	OSP	ITS	ICF: FS	INT	UMD	EML	PIM	UCT	ISF: FS	AV	BS	CAS	DB	DMS	DIS	DPS	DTP	MM	PS	PM	SS	WS	WP
Optional Units																										
Mobile Technology Web Page Creation (level 5)	✓	✓	✓	✓		✓	✓	✓			✓	✓	✓	✓				✓			✓				✓	
Programming for Mobile Devices (level 5)	✓	✓	✓	✓				✓				✓		✓												
Mobile Technology: Web Page Creation (level 6)	✓	✓	✓	✓		✓	✓	✓			✓	✓	✓	✓				✓			✓				✓	
Programming for Mobile Devices (level 6)	✓	✓	✓	✓				✓				✓		✓												
Mobile Game Development (level 5)	✓	✓	✓	✓	✓	✓	✓	✓			✓							✓			✓					
Social Software (level 5)	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓														
Mathematics for Interactive Computing (level 5)																										
Computing Digital Media Elements for Applications (level 5)	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓				✓	✓	✓	✓	✓				
Fundamental Electronics (level 5)																										
Combinational Logic (level 5)																										

Appendix 2 — Core Skills Map

S = Signposted

E () = Embedded (SCQF level)

Unit title	Communication		Information and Communication Technology		Numeracy		Problem Solving			Working with Others	
	Oral	Written	Accessing information	Providing/creating information	Using graphical information	Using number	Critical thinking	Planning and organising	Reviewing and evaluating	Working co-operatively with others	Reviewing co-operative contribution
Mandatory Units											
Mobile Technology Systems (level 5)	S	S	S	S			S	S	S	S	S
Mobile Technology and Personal Computer Applications (level 5)	S	S	E (5)	E (5)	E (5)	S	S	S	S		
Mobile Technology: Device Connectivity (level 5)	S	S	S	S			S	S	S		
Communication	E (5)	E (5)									
Mobile Technology Architecture (level 6)	S	S	S	S		E (5)	S	S	S		
Mobile Technology: Media (level 6)	S	S	S	S			S	S	S	S	S
Mobile Technology: Security and Peripherals (level 6)	S	S	S	S			S	S	S		
Mobile Technology: Project (level 6)	S	S	S	S		S	S	S	S	S	S

Unit title	Communication		Information and Communication Technology		Numeracy		Problem Solving			Working with Others	
	Oral	Written	Accessing information	Providing/creating information	Using graphical information	Using number	Critical thinking	Planning and organising	Reviewing and evaluating	Working co-operatively with others	Reviewing co-operative contribution
Optional Units											
Mobile Technology: Web Page Creation (level 5)	S	S	S	S			S	S	S	S	S
Programming for Mobile Devices (level 5)		S	S	S			S	S	S	S	S
Mobile Technology: Web Page Creation (level 6)	S	S	S	S			S	S	S	S	S
Programming for Mobile Devices (level 6)		S	S	S			S	S	S	S	S
Mobile Game Development (level 5)	S	S	S	S			S	S	S	S	S
Social Software (level 5)	S	S	S	S			S	S	S	S	S
Mathematics for Interactive Computing (level 5)			S	S	E (4)	E (5)	S	S	S		
Computing: Digital Media Elements for Applications (level 5)	S	S	S	S			S	S	S	S	S
Fundamental Electronics (level 5)							S	S	S		
Combinational Logic (level 5)					S	S	S	S	S		

Appendix 3 — Possible Progression Route

