



**Arrangements for:
National Certificate in Jewellery
at SCQF level 6**

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SQA acknowledges the valuable contribution that Scotland's colleges have made to the development of National Qualification Group Awards.

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1 Introduction

This is the Arrangements Document for the new National Certificate in Jewellery at SCQF level 6, which was validated in May 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 Group Award aims to provide candidates with a range of practical jewellery manufacturing and workshop skills and complementary studio design skills which will provide candidates with a good base of useful knowledge on which to build a career in the UK jewellery industry. The practical skills derived from undertaking the Group Award will be transferable to the repairs and servicing side of the jewellery business which play an important part of the industry in the UK.

2 Rationale for the development of the Group Award

Currently college devised Courses in Jewellery have been delivered at a number of Further Education (FE) colleges across Scotland since the mid-1980s, using a range of NQ Unit descriptors that do not constitute a nationally recognised Group Award. This is something of an anomaly as many learners from these locally devised Courses articulate on to nationally devised Higher National Certificate/ Diploma (HNC/HND) courses. In addition, many of the existing NQ Units have not been revised since they were originally developed in 1987/1988 and this work has now taken place.

Through the development of National Certificate (NC) in Art & Design at SCQF level 6, some Jewellery Units were revised and/or re-written. However, at the time of this revision there were no National Occupational Standards for the specific area of Jewellery on which to base the new individual Units. The development of the National Occupational Standards (NOS) specifically for Jewellery Manufacture, Silversmithing and Allied Trades by Creative and Cultural Skills in 2010 added weight to the argument for further review of the Units in this subject area and similar development has been completed in England and Wales.

The National Certificate in Jewellery at SCQF level 6 will prepare candidates for employment and self-employment or articulation to the HNC/HND in Jewellery and potentially further articulation on to higher education (HE). Appendix 1 shows potential routes in to and out of this qualification.

Colleges currently offering Courses in Jewellery are continually oversubscribed with interest from learners with around seventy full-time enrolments during academic year 2011/2012 at National Qualification level alone through the four centres which currently deliver Courses in jewellery disciplines in Scotland. This is further supported by research from Creative and Cultural Skills which identifies a clear skills gap and a need for suitable qualifications that align to the National Occupational Standards to fill this gap:

There are over 9,000 individuals working in the UK's 1,445 jewellery businesses, including sole traders as well as those in retail. There are many more individuals working in this sector if you include the very large numbers of those in wholesale jewellery manufacture and distribution. The jewellery sector therefore makes a significant contribution to the UK economy.

The jewellery sector consists of many designer-makers and although these creative roles are important, what is lacking are young individuals entering the sector in manufacturing and technical areas. Through Creative & Cultural Skills' Labour Market Intelligence (LMI) and employer engagement activities, including our sector-specific Blueprint reports written with industry, we have identified skills gaps in specialist areas (such as jewellery manufacturing), alongside generic skills (such as digital skills) and business skills (such as business development skills). The key to resolving these skills shortages is ensuring that the right set of vocational qualifications (including Apprenticeships and Higher Apprenticeships) are in place so that the right supply of skilled individuals can enter the sector.

- ◆ 65% of the workforce is between 45 and 65 years old.
- ◆ Only 17.7% of people working in jewellery occupations are qualified to level 4 and above. 23.8% of people in jewellery occupations have no qualifications at all.

Employers are keen to increase the level of work-based learning in order to change the culture of an over reliance on graduate recruitment to this industry.

Source: www.ccskills.org.uk

The Qualifications Design Team (QDT) decided to map the NC Group Award Framework against the National Occupational Standards to determine if the content reflects the requirements of industry. The result of this mapping can be seen clearly in Appendix 2 and shows frequently how elements from the NOS align with components from most of the Units either written or selected for this particular Group Award.

This is further supported by research carried out by the QDT to support the development using the following approaches:

- ◆ Desk based research
- ◆ Consultations with further education and training providers
- ◆ Consultations with local and national employers

A summary of the ways in which these three types of market research were conducted are shown in Table 1.

Table 1: Types of Market Research used to support development proposal

Type of research	Nature of research
Desk based research	<p>Analysis of available data on Course provision within the sector.</p> <p>Review of college self-evaluation reports and Scottish Funding Council data and alternative funding models/sources.</p> <p>Current and past students of jewellery from the four centres proposing the Group Award (50 responses)</p>

Table 1 (cont)

Type of research	Nature of research
Consultations with further education and training providers	Discussions within various forums with other colleges and training providers. Initial consultation with FE colleges through engagement phase of the NQGA development project. Representatives from higher education currently involved delivering Jewellery (four responses)
Consultation with employers	Jewellery manufacturers and employers from across Scotland (10 responses) Further discussions within the QDT, led by developing partner colleges.

It is important to emphasise that the analysis, feedback and comments arising from the various market research methodologies carried out for the development of the new Group Award was used by the QDT to inform this development.

Further to the responses above, a number of other informal telephone contacts were made with industry and comments noted and assimilated with the previous formal research.

In addition to responses gained from stakeholders the QDT have relied heavily on the recently published National Occupational Standards. These standards or guidelines were produced in 2010 by Cultural and Creative Skills, the sector skills council responsible for the jewellery industry in the UK. These standards have been written by members of the jewellery industry specifically with the intention that qualifications and Courses derived from these standards would be ideally suited for the existing industry.

Also, feedback from centres and evaluation of current college programmes identified a specific need for a programme with the right balance of knowledge, competence and skills content that will help learners be more suitably prepared for, and improve the success rate and recruitment of, the HNC/HND in Jewellery programmes.

As a result of this research and further discussion on the initial proposal, the National Certificate in Jewellery at SCQF level 6 was created to equip learners with a range of occupationally relevant skills, knowledge and experience. This is done through establishing a balance between practical and essential skills within a programme of relevant supporting Units. This will help candidates prepare for employment and self-employment and articulate to an HNC in Jewellery, as identified in Appendix 1: Progression and Articulation pathways. Furthermore the Unit descriptors have been clearly mapped to SCQF level 6 descriptors to demonstrate the justification for the Group Award being levelled at SCQF level 6. *Appendix 3.*

This Group Award will ensure that all three types of skills: broad, technical and generic, required for employment within the discipline of Jewellery are provided within the respective frameworks to support candidates in gaining employment and/or progression. However, the focus is mainly on the technical skills with the other broad and generic skills embedded.

3 Aims of the Group Award

The main aim of the Group Award is to provide a practical, flexible programme which will enable candidates to acquire and develop the technical and creative skills and knowledge required to work within the Jewellery design and manufacturing disciplines, and to support progression into employment and FE/HE programmes within this field.

3.1 Principal aims of the Group Award

- ◆ To develop employment skills in relation to the National Occupational Standards for the jewellery industry.
- ◆ To develop the creative and aesthetic awareness required to design jewellery.
- ◆ To provide candidates with the technical skills necessary to manufacture jewellery items.
- ◆ To provide candidates with the transferable skills required to perform jewellery repairs and undertake basic servicing of jewellery.
- ◆ To provide candidates with an introduction to gemmology and stone setting techniques.
- ◆ To provide candidates with opportunities to learn a range of specialist techniques such as lost wax casting, enamelling, silversmithing etc.
- ◆ To provide candidates with instruction on the use of Computer Aided Design (CAD) within the jewellery industry.
- ◆ To provide candidates with the underpinning knowledge and practical experience of the health and safety practices necessary in a jewellery workshop.

3.2 General aims of the Group Award

- ◆ To enable candidates to develop a high standard of written and oral communication.
- ◆ To enable candidates to develop and consolidate numeracy skills.
- ◆ To enable candidates to develop transferable skills in Information and Communication Technology (ICT)
- ◆ To develop the skills of independent working and working as part of a team.
- ◆ To provide candidates with the opportunity to broaden their skills and knowledge by accessing relevant optional Units attached to the framework.

All Units within the Group Award are mapped to the above aims in *Appendix 4*.

3.3 Target groups

The target groups for this award are expected to be as follows:

- ◆ School leavers interested in learning a selection of techniques suitable for employment in the jewellery industry.
- ◆ School leavers interested in obtaining Group Award certification with a view to articulation on to higher level qualifications.
- ◆ Individuals who have a general interest in Art and Design and who wish to specialise in the field of jewellery design and manufacture.
- ◆ Individuals who have undertaken evening or day release classes and who now wish to take the subject on to the next level by undertaking a full-time Course.

3.4 Employment opportunities

The National Certificate in Jewellery at SCQF level 6 will support candidates in progression towards the following potential job roles:

- ◆ Self-employed jeweller/designer working directly for clients
- ◆ Employed jeweller/designer working within in the retail sector
- ◆ Freelance jewellery designer providing services to the retail sector
- ◆ Bench jeweller based in a manufacturing environment
- ◆ Bench jeweller based in a repairing/servicing environment
- ◆ Specialist jeweller in areas such as CAD, casting, setting, etc.

4 Access to the Group Award

While entry to the award is at the discretion of the centre, it would be advantageous if candidates have an interest and an understanding of the disciplines in jewellery design and manufacturing. The following are simply recommendations and should not be seen as a definitive or prescriptive list of entry requirements. The purpose is simply to give guidance on the selection of suitable candidates.

Core Skills Entry Profile

The recommended minimum Core Skills entry profile for the National Certificate in Jewellery at SCQF level 6:

<i>Communication</i>	SCQF level 5
<i>Numeracy</i>	SCQF level 5
<i>Information and Communication Technology (ICT)</i>	SCQF level 4
<i>Problem Solving</i>	SCQF level 4
<i>Working with Others</i>	SCQF level 4

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
- ◆ Relevant work experience

5 Group Award structure

Candidates must attain all of the mandatory Units which equates to 6 SQA credits (36 SCQF credit points). Candidates must also attain a further 6 SQA credits (36 SCQF credit points) from the list of optional Units one of which must be from Group A.

5.1 Framework

Unit title	Code	SQA credit value	SCQF level	SCQF credit points
Mandatory section — all 6 credits required				
Jewellery: Metal Forming	H1KC 12	2	6	12
Jewellery: Stonesetting: An Introduction	H09X 12	1	6	6
Jewellery: Decorative Finishes	H1KD 12	2	6	12
Jewellery: Design for Jewellers	H2YL 12	1	6	6
Optional section — 6 credits required, at least 1 to be from Group A				
Group A: 1–6 credits required				
Jewellery: Silversmithing	H1KH 12	2	6	12
Jewellery: Repairs	H1KG 12	1	6	6
Jewellery: Polishing	H09W 12	1	6	6
Jewellery: Casting	H1KJ 12	2	6	12
Jewellery: Gemstones	H0A1 12	1	6	6
Jewellery: Competition Entry	H09Y 12	1	6	6
Art and Design: Developmental Drawing	F5CG 12	1	6	6
Art and Design: Analytical Drawing	F5CD 12	1	6	6
Art and Design: Digital Media	F5CH 12	1	6	6
Glass Fusing: An Introduction	F1X7 33	1	6	8
Group B: 0–5 credits required				
Jewellery: Manufacturing Techniques: an Introduction	H09P 11	1	5	6
Jewellery: Piercing and Inlay	H1KK 11	2	5	12
Jewellery: Piercing	H09R 11	1	5	6
Jewellery: Working with Wire	H1KL 11	1	5	6
Jewellery: Marking Out	H09S 11	1	5	6
Jewellery: Soldering	H09T 11	1	5	6
Jewellery: Enamelling	H1KM 11	1	5	6
Jewellery: Etching	H0A2 11	1	5	6
Jewellery: Non precious Materials	H09V 11	1	5	6
Art/Design Project 1: Jewellery	E9SR 11	2	5	12
Communication Or Literacy	F3GB11 H23W 75	1 1	5 5	6 6
Computer Aided Draughting (CAD) for Engineers	F5H4 11	1	5	6
Computer Applications: Design	D969 11	1	5	6

5.2 Mapping information

The QDT mapped the NC Group Award Framework against the National Occupational Standards to determine if the content reflects the requirements of industry. The result of this mapping can be seen in *Appendix 2*.

Unit descriptors have been clearly mapped to SCQF level 6 descriptors to demonstrate the justification for the Group Award being levelled at SCQF level 6 in *Appendix 3*.

All Units within the Group Award are mapped to the aims in *Appendix 4*.

5.3 Articulation, professional recognition and credit transfer

The National Certificate in Jewellery at SCQF level 6 will prepare candidates for employment and self-employment or articulation to the HNC/HND in Jewellery and potentially further articulation on to higher education (HE). *Appendix 1* shows potential routes in to and out of this qualification.

Table 2 below shows where credit transfer from old Units to new Units is possible:

Code	New Unit title	Code	Old Unit title	Credit Transfer
H1KC12	Jewellery: Metal Forming	F9WA 12	Art and Design: Jewellery — Doming and Forming	Y
H09X 12	Jewellery: Stonesetting	D0L1 12	Jewellery Design: Stone Setting	Y
H1KD12	Jewellery: Decorative Finishes	F9VE 11	Art and Design: Jewellery Design — Texturing and Surface Decoration	N Old Unit is at lower level
H1KH12	Jewellery: Silversmithing	F9WC 12	Art and Design: Jewellery — Silversmithing	Y
H1KG12	Jewellery: Repairs	EE81 12	Jewellery: Repairs	Y
H1KJ12	Jewellery — Casting	F9WD 12	Art and Design: Jewellery — Casting	Y
H0A1 12	Jewellery: Gemstones	D16H 12	Retail Jewellery: Gemstones	Y
H1KK11	Jewellery: Piercing and Inlay	F9VD 11	Art and Design: Jewellery Design — Piercing and Inlay	Y
H09R 11	Jewellery: Piercing	F9X4 11	Art and Design: Jewellery Piercing (0.5 credits)	N Old Unit is only 0.5 credits
H1KL11	Jewellery: Working with Wire	F9X5 11	Art and Design: Jewellery Wire Twisting (0.5 credits)	N Old Unit is only 0.5 credits

Table 2 (cont)

Code	New Unit title	Code	Old Unit title	Credit Transfer
H1KM11	Jewellery: Enamelling	F9VN 11	Art and Design: Jewellery — Basic Enamelling	Y
H0A2 11	Jewellery: Etching	E7NK 11	Jewellery Design: Etching	Y
H09V 11	Jewellery: Non Precious Materials	F9VP 11	Art and Design: Jewellery — Non-Precious Materials 2	Y

6 Approaches to delivery and assessment

It is expected that the National Certificate in Jewellery will provide valued certification for a full-time college Course in a specialist jewellery department appropriately equipped in a Further Education College in Scotland.

While the NC Group Award itself is composed of 12 SQA credits (480 taught hours) it is possible that individual centres may top up the delivery by choosing to deliver a further selection of Units from the optional section of the Course.

The 6 credit mandatory/6 credit optional structure of the qualification will permit centres a degree of flexibility to customise their delivery depending on local requirements and staff expertise.

While each centre delivering the award has the discretion to deliver their selected Units in their own preferred sequence throughout the year a proposed structure for a standard three term year could be as follows:

Term 1 (12 Weeks)	The first term would be expected to introduce the candidate to a range of fundamental jewellery techniques which would be complementary and allow for a steep learning curve to be obtained. It would be expected that a centre would prepare a selection of mandatory projects which would equip candidates with a range of basic skills in each area before proceeding to work on combined projects which would permit learners to bring their own design interests to life. Assessment may be measured by using the initial mandatory projects with any further elements covered by the combined projects.	
	H09R 12 Jewellery: Piercing	This introductory Unit covers a range of design transfer techniques and production of sheet metal objects primarily produced with a standard jewellers piercing saw.
	H1KD 12 Jewellery: Decorative Finishes	This Unit allows candidates to explore a range of different surface Finishes techniques as well as learning how to perform range of polishing techniques performed on jewellery items. Other techniques could include etching, engraving and patination.

	H09T 11 Jewellery: Soldering	This Unit covers the main method by which precious metals are combined for the production of jewellery items. The range of soldering torches and metal solders would be covered as well as individual projects to teach learners how to undertake soldering techniques in different design situations.
Term 2 (12 Weeks)	The second term would build on the skills learned in the first period of the Course by teaching the broader range of skills covered in these Units. With a specialist design Unit combined with a broad techniques Unit the learner will be able to consider the 'design process' in the context of the jeweller manufacture and learn a variety of presentation and paint-up techniques used by the professional jewellery designer. At this stage it may be useful to introduce a knowledge based complementary Unit such as Jewellery: Gemstones which will introduce the candidate to methods of description and identification of this most useful of a jeweller's materials.	
	H1KC 12 Jewellery: Metal Forming	This Unit will cover a range of metal forming techniques beyond those covered in the term 1 Units. Candidates will again be provided with mandatory projects to ensure expertise is obtained before following up with self-directed projects.
	H2YL 12 Jewellery: Design for Jewellers	This Unit will provide the candidate with opportunities to learn presentation and paint-up techniques as well as becoming familiar with the processes by which original jewellery designs may be derived.
	H0A1 12 Jewellery: Gemstones	This Unit will introduce the candidate to the range of gemstones which the modern jeweller could expect to make use of when designing and manufacturing jewellery. Candidates will learn basic identification techniques in addition to the appearance and physical properties of gems.

Term 3 (12 Weeks)	The final term of the Course will provide the candidate with a selection of Units which will build upon the skills and information already covered. The selection of Units available will permit the centre and possibly the individual learner to select combinations more suitable for entry to the industry and/or for articulation to higher level Courses.	
	H09X 12 Jewellery: Stonesetting: An Introduction	This specialist Unit will build upon the manufacturing skills already obtained in the first two terms and would permit the learner to obtain specialist skills in mounting and stone setting. These skills are generally considered to be at the higher level of a jeweller's activity and as such this is a mandatory Unit on the Course.
	H1KG 12 Jewellery: Repairs	This Unit would be particularly appropriate for those individuals hoping to obtain direct employment in the jewellery industry. It relies on many of the skills obtained through the other Units.
	H09Y 12 Jewellery: Competition Entry	This Unit provides candidates the opportunity to design and manufacture a selection of objects which confirm to a brief supplied to the candidate. It is expected the resulting objects will be suitable for entry into any of the jewellery competitions which are available to students in the UK and abroad.
	F5CH 12 Art and Design: Digital Media	This is a general digital Unit which may introduce the learner to a variety of 2D imaging software and 3D CAD software used in the industry for both manufacture and promotion. This Unit would be considered essential for individuals hoping to articulate on to higher level study at HN or ultimately BA level.

Assessment strategy

The primary intention of the NC Group Award is to create individuals with a range of practical jewellery manufacture and design skills capable of articulation and/or direct employment in the jewellery industry.

As such it is expected that the majority of assessments will be of a project/practical assessment nature which will require the learner to complete either a mandatory exercise or a combined project. Mandatory exercises would be expected to assess specific Outcomes of a single Unit where combined projects could be expected to cover a number of Outcomes across a range of Units or multiple Outcomes in a single Unit.

It is expected that all projects would include an evaluation of both the techniques used and the success of the final piece and that these may be combined to evidence various elements of Core Skills.

Core Skills

The National Certificate in Jewellery at SCQF level 6 provides opportunities for candidates to develop Core Skills. It is recommended that candidates should possess the following Core Skills profile on entry:

Core Skill	Minimum Entry SCQF level
Communication	5
Problem Solving	4
Working with Others	4
Numeracy	5
Information and Communication Technology (ICT)	4

Where candidates do not come with an existing Core Skills profile, it is recommended that centres consider carrying out a Core Skills profiling exercise so that targeted support may be offered to candidates who require it.

Development of Core Skills will be naturally through the Unit content and/or through specific learning and teaching approaches. This is based on the principle that Core Skills development is more meaningful for candidates and provides more benefit to employers if it is undertaken in the context of the discipline which they are studying and which in this case would be the jewellery industry.

A dedicated Unit covering Communication has been identified and is available in the optional section of the Group Award. Through further research and Core Skill profiling of previous applicants for NQ Jewellery the QDT identified that a majority of learners have *ICT* and *Numeracy* at SCQF level 5 on entry which has been proven adequate at this level as an entry requirement.

Appendix 5 identifies the Core Skills that are signposted across many of the Units from both the mandatory and optional sections of the Group Award, for example, numeracy in *Jewellery: Gemstones* and *ICT* in *Computer Aided Drafting*.

Many of the Units will involve the use of shared workshop and studio space which will involve the Core Skills of *Problem Solving* and *Working with Others*.

Exit Profile

Candidates who achieve the National Certificate in Jewellery at SCQF level 6 will have opportunities to develop Core Skills to the following levels:

Core Skill	Level	Signposted/Certified
Communication	Level 6	Signposted Certificated*
Problem Solving	Level 5/6	Signposted Partially Certificated **
Working with Others	Level 6	Signposted
Numeracy	Level 5	Signposted
Information Communication Technology (ICT)	Level 5	Signposted

*Only if the Core Skill *Communication* Unit is chosen as an option.

**The Core Skills component of Critical Thinking (*Problem Solving*) at SCQF level 5 is automatically certificated in the following Units:

H1KC 12	<i>Jewellery: Metal Forming</i>
H09X 12	<i>Jewellery: Stonesetting: an Introduction</i>
H1KD 12	<i>Jewellery: Decorative Finishes</i>
H2YL 12	<i>Jewellery: Design for Jewellers</i>
H1KJ 12	<i>Jewellery – Casting</i>
H1KK 11	<i>Jewellery: Piercing and Inlay</i>
H1KL 11	<i>Jewellery: Working with Wire</i>
H1KM 11	<i>Jewellery: Enamelling</i>
E9SR 11	<i>Jewellery Project</i>
FH54 11	<i>Computer Aided Draughting (CAD) for Engineers</i>

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 this Group Award 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

The National Certificate (NC) in Jewellery at SCQF level 6 is intended for those wishing to follow a vocational education in a range of fields associated with jewellery.

It is flexible enough to allow you to follow different career paths within the jewellery industry; such as manufacturing, design, self-employment or further study.

Who should apply for this Course?

The National Certificate in Jewellery at SCQF level 6 would be a suitable choice if you are:

- ◆ creative and enjoy design and craft skills
- ◆ interested in working in the jewellery industry
- ◆ seeking a career change
- ◆ interested in gaining access to higher education (HNC/D)

Employment opportunities

The National Certificate in Jewellery at SCQF level 6 will support you in progressing towards the following potential job roles:

- ◆ Self-employed jeweller/designer working directly for clients
- ◆ Employed jeweller/designer working within in the retail sector
- ◆ Freelance jewellery designer providing services to the retail sector
- ◆ Bench jeweller based in a manufacturing environment
- ◆ Bench jeweller based in a repairing/servicing environment
- ◆ Specialist jeweller in areas such as CAD, casting, setting etc.

Access to the Group Award

While entry to the National Certificate in Jewellery is at the discretion of the centre, it would be advantageous if you have an interest and an understanding of the disciplines in jewellery design and manufacturing.

What kind of study is involved?

The following mandatory subject areas will be covered in the National Certificate in Jewellery at SCQF level 6:

Jewellery: Design for Jewellers

Jewellery: Metal Forming

Jewellery: Decorative Finishes

Jewellery: Stonesetting: an Introduction

These Units will involve you in a range of projects designed to teach you how to perform the basic techniques required to manufacture items of jewellery. You will then progress to undertake a period of study of jewellery design and how your designs can be realised in precious metals, gemstones and a range of other materials.

A full range of other optional Units are available to broaden your knowledge and understanding of the jewellery making process, for example:

Jewellery: Piercing
Jewellery: Enamelling
Jewellery: Silversmithing
Jewellery: Repairs
Jewellery: Casting
Jewellery: Gemstones
Jewellery: Working with Wire
Jewellery: Soldering
Jewellery: Etching
Computer Aided Draughting (CAD) for Engineers

In order to achieve the NC in Jewellery at SCQF level 6, you need to achieve 12 SQA credits.

During your period of study a range of Core Skills will be developed:

- ◆ *Communication*
- ◆ *Numeracy*
- ◆ *Information and Communication Technology (ICT)*
- ◆ *Problem Solving*
- ◆ *Working with Others*

The following table shows how these Core Skills will be developed:

Numeracy	Using Number	Signposted within all mandatory Units, and included in some of the optional Units.	<i>This Core Skills element will be developed as candidate's measure gemstones and weigh precious metals and use formulae and current metal prices to calculate costs and values across the range of work undertaken.</i>
	Using Graphical Information	Signposted within all mandatory Units, and included in some of the optional Units.	<i>This Core Skills element will be developed as candidates undertake marking out procedures on sheet metal and undertake design transfer techniques. Geometry will be used in the formation of 2D designs suitable for manufacture.</i>
ICT	Accessing Information	Signposted within all mandatory Units, and included in some of the optional Units.	<i>Where candidates use the internet to research information and to carry out a range of processing tasks.</i>
	Processing Information	Signposted within all mandatory Units, and included in some of the optional Units.	<i>Also in relation to presentation purposes and in the use of Computer Aided Design which is becoming increasingly important in the Jewellery Industry with increased use of Rapid Prototyping (RP) technologies for manufacture.</i>
Communication	Written Communication	Signposted within all mandatory Units, and included in some of the optional Units.	<i>Where candidates use the internet to research information and to carry out a range of processing tasks. Also in relation to presentation purposes (Powerpoint) and in the use of Computer Aided Design which is becoming increasingly important in the Jewellery Industry with increased use of Rapid Prototyping (RP) technologies for manufacture.</i>
	Oral Communication		
Problem Solving	Critical Thinking	Signposted within all mandatory Units, and included in some of the optional Units.	<i>Critical Thinking, Planning, Organising, Reviewing and Evaluation: Decisions will be made when candidates undertake a range of jewellery design and manufacture projects throughout the Course.</i>
	Planning and Organising	Signposted within all mandatory Units, and included in some of the optional Units.	

	Reviewing and Evaluating	Signposted within all mandatory Units, and included in some of the optional Units.	
Working with Others	Working Co-operatively with Others	Signposted within all mandatory Units, and included in some of the optional Units.	<i>This Core Skills and related elements will be developed frequently throughout the award as candidates work closely in workshop and studio environments and share equipment and resources.</i>
	Reviewing Co-operative Contribution	Signposted within all mandatory Units, and included in some of the optional Units.	

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

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- Appendix 2: Mapping of National Occupational Standards to new Units in the National Certificate in Jewellery at SCQF level 6
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Appendix 1: Progression and articulation pathways

SCQF	SQA National Courses and Group Awards	Further/Higher Education	Vocational Qualifications	SCQF
9		BA Silversmithing Jewellery Art and Design Illustration Fine Art Sculpture Industrial Design		9
8		HND Jewellery Art and Design Computer Arts and Design Contemporary Art Practice 3D Design Visual Communication Art Glass Production	<ul style="list-style-type: none"> ◆ Level 4 Diploma in Jewellery Manufacturing ◆ Level 4 Diploma in Silversmithing ◆ Level 4 Diploma in Gem Setting ◆ Level 4 Diploma in Precious Metal Polishing and Finishes ◆ Level 4 Diploma in Precious Metal Engraving ◆ Level 4 Diploma in Precious Metal CAD/CAM ◆ Level 4 Diploma in Precious Metal Enamelling 	8
7	Advanced Higher Art and Design Graphic Communication Product Design Technological Studies	HNC Jewellery Art and Design Computer Arts and Design Contemporary Art Practice 3D Design Visual Communication Art Glass Production	<ul style="list-style-type: none"> ◆ Level 3 Diploma in Jewellery Manufacturing ◆ Level 3 Diploma in Silversmithing ◆ Level 3 Diploma in Gem Setting ◆ Level 3 Diploma in Precious Metal Polishing and Finishes ◆ Level 3 Diploma in Precious Metal engraving ◆ Level 3 Diploma in Precious Metal CAD/CAM ◆ Level 3 Diploma in Precious Metal Enamelling 	7

Appendix 1: Progression and articulation pathways (cont)

SCQF	SQA National Courses and Group Awards	Further/Higher Education	Vocational Qualifications	SCQF
6	Higher Art and Design Graphic Communication Product Design Technological Studies NC Jewellery NPA Jewellery in Advanced Techniques NC Art and Design			6
5	Intermediate 2 Skills for Work Creative Industries Art and Design Graphic Communication Product Design Technological Studies NPA Jewellery Basic Techniques 1 NPA Jewellery Basic Techniques 2		♦ Level 2 Diploma in Jewellery Manufacturing	5
4	Intermediate 1 Art and Design Graphic Communication			4
3	Access 3 Art and Design			3

Appendix 2: Mapping of National Occupational Standards to new Units in the National Certificate in Jewellery at SCQF level 6

Unit code	Unit title	Mandatory/Optional	NOS Titles
H1KC 12	Jewellery: Metal Forming	Mandatory	J2.1 Contribute to keeping the workshop tidy and safe J2.2 Read jewellery manufacture or silversmithing drawings J2.3 Mark out and measure materials for jewellery or silverware components J2.5 Cut and pierce jewellery or silverware components J2.6 File jewellery or silverware components J2.7 Produce formed jewellery or silverware components J3.6 Form jewellery components
H09X 12	Jewellery: Stonesetting: an Introduction	Mandatory	J2.11 Identify and secure stones in settings J3.6 Form jewellery components J3.14 Polish and finish jewellery or silverwork to a commercial standard J3.20 Set gemstones by hand J4.17 Set gemstones using advanced setting techniques J4.19 Carry out repairs and restoration to jewellery or silverware
H1KD 12	Jewellery: Decorative Finishes	Mandatory	J2.6 File jewellery or silverware components. J2.9 Polish and finish jewellery or silverware components J3.14 Polish and finish jewellery or silverwork to a commercial standard J3.16 Produce engraved surfaces
H2YL 12	Jewellery: Design for Jewellers	Mandatory	J2.2 Read jewellery manufacture or silversmithing drawings J4.2 Research, develop and produce drawn plans for precious products

Appendix 2: Mapping of National Occupational Standards to new Units in the National Certificate in Jewellery at SCQF level 6 (cont)

Unit code	Unit title	Mandatory/Optional	NOS Titles
H1KH 12	Jewellery: Silversmithing	Optional	J2.1 Contribute to keeping the workshop tidy and safe J2.2 Read jewellery manufacture or silversmithing drawings J2.3 Mark out and measure materials for jewellery or silverware components J2.5 Cut and pierce jewellery or silverware components J2.6 File jewellery or silverware components J2.7 Produce formed jewellery or silverware components. J3.1 Form silverware components. J3.12 Join silverware components by soldering J3.13 Use mechanical methods of joining jewellery or silverware
H1KG 12	Jewellery: Repairs	Optional	J2.1 Contribute to keeping the workshop tidy and safe J2.4 Identify the basic properties of common precious metals and alloys used in jewellery or silversmithing J2.8 Carry out permanent joining of jewellery or silverware components J2.9 Polish and finish jewellery or silverware components J4.19 Carry out repairs and restoration to jewellery or silverware
H09W 12	Jewellery: Polishing	Optional	J2.9 Polish and finish jewellery or silverware components J3.14 Polish and finish jewellery or silverwork to a commercial standard
H1KJ 12	Jewellery – Casting	Optional	J2.7 Produce formed jewellery or silverware components J3.7 Produce rubber moulds for lost wax casting J3.8 Produce components by wax casting
H0A1 12	Jewellery: Gemstones	Optional	J2.11 Identify and secure stones in settings J3.20 Set gemstones by hand J4.17 Set gemstones using advanced setting techniques

Appendix 2: Mapping of National Occupational Standards to new Units in the National Certificate in Jewellery at SCQF level 6 (cont)

Unit code	Unit title	Mandatory/Optional	NOS Titles
H09P 11	Jewellery: Manufacturing Techniques: an Introduction	Optional	<p>J2.1 Contribute to keeping the workshop tidy and safe</p> <p>J2.2 Read jewellery manufacture or silversmithing drawings</p> <p>J2.3 Mark out and measure materials for jewellery or silverware components</p> <p>J2.4 Identify the basic properties of common precious metals and alloys used in jewellery or silversmithing</p> <p>J2.5 Cut and pierce jewellery or silverware components</p> <p>J2.6 File jewellery or silverware components</p> <p>J2.7 Produce formed jewellery or silverware components</p> <p>J2.8 Carry out permanent joining of jewellery or silverware components</p> <p>J2.9 Polish and finish jewellery or silverware components</p> <p>J3.5 Saw and pierce jewellery or silverware components</p> <p>J3.6 Form jewellery components</p>
H1KK 12	Jewellery: Piercing and Inlay	Optional	<p>J2.1 Contribute to keeping the workshop tidy and safe</p> <p>J2.2 Read jewellery manufacture or silversmithing drawings</p> <p>J2.3 Mark out and measure materials for jewellery or silverware components</p> <p>J2.5 Cut and pierce jewellery or silverware components</p> <p>J2.6 File jewellery or silverware components</p> <p>J3.2 Produce jewellery, silverware or engraving from detailed drawings and specifications</p> <p>J3.3 Mark out and measure materials for jewellery manufacture or Silversmithing</p> <p>J3.5 Saw and pierce jewellery or silverware components</p> <p>J4.1 Prepare and maintain the general workshop environment</p> <p>J4.2 Research, develop and produce drawn plans for precious metals</p>

Appendix 2: Mapping of National Occupational Standards to new Units in the National Certificate in Jewellery at SCQF level 6 (cont)

Unit code	Unit title	Mandatory/Optional	NOS Titles
H09R 11	Jewellery: Piercing	Optional	J2.2 Read jewellery manufacture or silversmithing drawings J2.3 Mark out and measure materials for jewellery or silverware components J2.5 Cut and pierce jewellery or silverware components
H1KL 11	Jewellery: Working with Wire	Optional	J3.6 Form jewellery components J3.9 Join jewellery components by soldering J3.10 Form silverware components J3.12 Join silverware components by soldering J3.13 Use mechanical methods of joining jewellery or silverware
H09S 11	Jewellery: Marking Out	Optional	J2.2 Read jewellery manufacture or silversmithing drawings J2.3 Mark out and measure materials for jewellery or silverware components J2.5 Cut and pierce jewellery or silverware components
H09T 11	Jewellery: Soldering	Optional	J2.8 Carry out permanent joining of jewellery or silverware components J3.9 Join jewellery components by soldering

Appendix 2: Mapping of National Occupational Standards to new Units in the National Certificate in Jewellery at SCQF level 6 (cont)

Unit code	Unit title	Mandatory/Optional	NOS Titles
H1KM 11	Jewellery: Enamelling	Optional	<p>J2.1 Contribute to keeping the workshop tidy and safe</p> <p>J2.2 Read jewellery manufacture or silversmithing drawings</p> <p>J2.3 Mark out and measure materials for jewellery or silverware components</p> <p>J2.6 File jewellery or silverware components</p> <p>J2.12 Identify and explain methods and tools used in vitreous enamelling</p> <p>J3.2 Produce jewellery, silverware or engraving from detailed drawings and specifications</p> <p>J3.3 Mark out and measure materials for jewellery manufacture or Silversmithing</p> <p>J3.18 Produce enamelled surfaces</p> <p>J4.1 Prepare and maintain the general workshop environment</p> <p>J4.2 Research, develop and produce drawn plans for precious metals</p> <p>J4.15 Produce enamelled surfaces using advanced techniques</p>
H0A2 11	Jewellery: Etching	Optional	<p>J3.4 Demonstrate and apply an understanding of metallurgy to your jewellery or silversmithing work</p> <p>J2.9 Polish and finish jewellery or silverware components</p> <p>J2.10 Produce hand engraving</p> <p>J3.2 Produce jewellery, silverware or engraving from detailed drawings and specifications</p> <p>J3.1 Contribute to the maintenance and preparation of the jewellery or silversmithing workshop environment</p>
H09V 11	Jewellery: Non precious Materials	Optional	<p>J2.5 Cut and pierce jewellery or silverware components</p> <p>J2.6 File jewellery or silverware components</p> <p>J2.7 Produce formed jewellery or silverware components</p> <p>J2.8 Carry out permanent joining of jewellery or silverware components</p> <p>J2.9 Polish and finish jewellery or silverware components</p>

Appendix 3: Mapping Units to SCQF level 6 descriptors

Characteristics	SCQF level 6 descriptors	NC in Jewellery at SCQF level 6													
		Mandatory Units				Optional Units – Group A									
		Jewellery: Metal Forming	Jewellery: Stonesetting: an Introduction	Jewellery: Decorative Finishes	Jewellery: Design for Jewellers	Jewellery Silversmithing	Jewellery: Repairs	Jewellery: Polishing	Jewellery - Casting	Jewellery: Gemstones	Jewellery: Competition Entry	Developmental Drawing	Analytical Drawing	Art & Design: Digital Media	Glass Fusing: An Introduction
Knowledge and Understanding	Demonstrate and/or work with:	X	X	X	X	X	X	X	X	X	X			X	X
	◆ Generalised knowledge of a subject/discipline	X	X	X	X	X	X	X	X	X	X			X	X
	◆ Factual and theoretical knowledge	X	X	X	X	X	X	X	X	X	X			X	X
	◆ A range of facts, ideas, properties, materials, terminology practices, techniques about/associated with a subject/discipline	X	X	X	X	X	X	X	X	X	X	X	X	X	
	◆ Relate the subject/discipline to a range of practical and/or everyday applications				X	X	X				X				
Practice: applied knowledge and understanding	Apply knowledge and understanding in known, practical contexts	X	X	X	X	X	X	X	X	X	X			X	X
	Use some of the basic, routine practices, techniques or materials	X	X	X	X	X	X	X		X	X	X	X	X	X
	Associated with a subject/discipline in routine contexts which may have non-routine elements	X	X	X	X	X	X	X		X	X	X	X	X	X
	Plan how skills will be used to address set situations and/or problems and adapt these as necessary	X	X	X	X	X	X	X	X	X	X			X	X
Generic cognitive skills	Obtain, organise and use factual and theoretical information in problem solving				X		X		X		X				
	Make generalisations and predictions				X		X		X		X				
	Draw conclusions and suggest solutions				X		X		X		X				

Characteristics	SCQF level 6 descriptors	NC in Jewellery at SCQF level 6													
		Mandatory Units				Optional Units – Group A									
		Jewellery: Metal Forming	Jewellery: Stonesetting: an Introduction	Jewellery: Decorative Finishes	Jewellery: Design for Jewellers	Jewellery Silversmithing	Jewellery: Repairs	Jewellery: Polishing	Jewellery – Casting	Jewellery: Gemstones	Jewellery: Competition Entry	Developmental Drawing	Analytical Drawing	Art & Design: Digital Media	Glass Fusing: An Introduction
Communication, ICT and numeracy skills	Use a wide range of skills, for example:								X	X	X			X	
	◆ Produce and respond to details and relatively complex written and oral communication in both familiar and unfamiliar contexts														
	◆ Select and use standard applications to process, obtain and combine information	X			X		X			X	X	X	X	X	
	◆ Use a wide range of numerical and graphical data in routine contexts which may have non-routine elements				X		X		X	X	X			X	
Autonomy, accountability and working with others	Take responsibility for carrying out a range of activities where the overall goal is clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Take some supervisory responsibility for the work of others and lead established teams in the implementation of routine work								X						
	Manage limited resources within defined and supervised areas of work	X	X	X		X	X	X	X	X	X				X
	Take account of roles and responsibilities related to the tasks being carried out and take a significant role in the evaluation of work and the improvement of practices and processes								X		X				

Appendix 4: Mapping Units to Aims of Group Awards

Unit code	Unit title	Principal aims								General aims				
		3.1.1.	3.1.2.	3.1.3.	3.1.4.	3.1.5.	3.1.6.	3.1.7.	3.1.8.	3.2.1	3.2.2	3.2.3	3.2.4	3.2.5
Mandatory Units:														
H1KC 12	Jewellery: Metal Forming	X	X	X	X		X		X	X			X	
H09X 12	Jewellery: Stonesetting: an Introduction	X	X	X	X	X	X		X	X	X		X	
H1KD 12	Jewellery: Decorative Finishes	X	X	X	X		X		X	X			X	
H2YL 12	Jewellery: Design for Jewellers	X	X		X	X	X	X	X	X	X	X	X	
Group A Optional Units:														
H1KH 12	Jewellery: Silversmithing	X	X	X	X		X		X	X	X		X	X
H1KG 12	Jewellery: Repairs	X	X	X	X		X		X	X	X		X	X
H09W 12	Jewellery: Polishing	X	X	X	X		X		X	X			X	X
H1KJ 12	Jewellery – Casting	X	X	X			X		X	X	X		X	X
H0A1 12	Jewellery: Gemstones	X	X		X	X		X		X	X	X	X	X
H09Y 12	Jewellery: Competition Entry		X	X				X		X		X	X	X
F5CG12	Developmental Drawing		X					X		X			X	X
F5CD12	Analytical Drawing		X					X		X			X	X
F5CH12	Art & Design: Digital Media		X					X		X			X	X
F1X7 33	Glass Fusing: An Introduction		X	X			X		X	X			X	X
Group B Optional Units:														
H09P 11	Jewellery: Manufacturing Techniques: an Introduction	X	X	X	X	X	X	X	X	X	X	X	X	X
H1KK 11	Jewellery: Piercing and Inlay	X	X	X	X		X		X	X			X	X
H09R 11	Jewellery: Piercing	X	X	X	X		X		X	X			X	X
H1KL 11	Jewellery: Working with Wire	X	X	X	X		X		X	X			X	X

Unit code	Unit title	Principal aims								General aims				
		3.1.1.	3.1.2.	3.1.3.	3.1.4.	3.1.5.	3.1.6.	3.1.7.	3.1.8.	3.2.1	3.2.2	3.2.3	3.2.4	3.2.5
Group B Optional Units:														
H09S 11	Jewellery: Marking Out	X	X	X	X		X		X	X			X	X
H09T 11	Jewellery: Soldering	X	X	X	X		X		X	X			X	X
H0A2 11	Jewellery: Etching	X	X	X	X		X		X	X			X	X
H09V 11	Jewellery: Non precious Materials	X	X	X	X		X		X	X			X	X
E9SR 11	Jewellery Project		X						X	X			X	X
F3GB11	Communication		X					X		X			X	X
F5H4 11	Computer Aided Draughting (CAD) for Engineers	X	X					X		X	X	X	X	X
D969 11	Computer Applications: Design	X	X					X		X	X	X	X	X

Appendix 5: Core Skills Mapping

Code	Title	Communication		Working with Others		Numeracy		ICT		Problem Solving		
		Written	Oral	Working Co-operatively with Others	Reviewing Co-operative Contribution	Using Numbers	Using Graphical Information	Accessing Information	Processing Information	Critical Thinking	Planning and Organising	Reviewing and Evaluating
H1KC12	Jewellery: Metal Forming	S(6)	S(6)	S(6)	S(6)			S(6)		E(5)	S(6)	S(6)
H09X 12	Jewellery: Stonesetting: an Introduction	S(6)	S(6)	S(6)	S(6)	S(6)				E(5)	S(6)	S(6)
H1KD 12	Jewellery: Decorative Finishes	S(6)		S(6)	S(6)			S(6)		E(5)	S(6)	S(6)
H2YL 12	Jewellery: Design for Jewellers	S(6)	S(6)	S(6)	S(6)			S(6)		E(5)	S(6)	S(6)
Optional Units												
H1KH 12	Jewellery: Silversmithing	S(6)	S(6)	S(6)	S(6)			S(6)		S(5)	S(6)	S(6)
H1KG 12	Jewellery: Repairs	S(6)	S(6)	S(6)	S(6)	S(6)	S(6)	S(6)	S(6)	S(5)	S(6)	S(6)
H09W 12	Jewellery: Polishing	S(6)	S(6)	S(6)	S(6)			S(6)	S(6)	S(6)	S(6)	S(6)
H1KJ12	Jewellery – Casting	S(6)	S(6)	S(6)	S(6)	S(6)	S(6)	S(6)	S(6)	E(5)	S(6)	S(6)
H0A1 12	Jewellery: Gemstones	S(6)	S(6)	S(6)	S(6)	S(6)	S(6)	S(6)	S(6)	S(6)	S(6)	S(6)
H09Y 12	Jewellery: Competition Entry	S(6)	S(6)	S(6)	S(6)			S(6)	S(6)	S(6)	S(6)	S(6)
F5CG12	Developmental Drawing	S(5)	S(5)							S(5)	S(5)	S(5)

Appendix 5: Core Skills Mapping (cont)

Code	Title	Communication		Working with Others		Numeracy		ICT		Problem Solving		
		Written	Oral	Working Co-operatively with Others	Reviewing Co-operative Contribution	Using Numbers	Using Graphical Information	Accessing Information	Processing Information	Critical Thinking	Planning and Organising	Reviewing and Evaluating
Optional Units												
F5CD12	Analytical Drawing	S(5)	S(5)							S(5)	S(5)	S(5)
F5CH12	Art & Design: Digital Media	S(5)	S(5)					S(5)	S(5)	S(5)	S(5)	S(5)
F1X7 33	Glass Fusing: An Introduction			S(5)	S(5)					S(6)	S(6)	S(6)
H09P 11	Jewellery: Manufacturing Techniques: an Introduction	S(5)	S(5)	S(5)	S(5)					S(5)	S(5)	S(5)
H1KK 11	Jewellery: Piercing and Inlay	S(6)	S(6)	S(6)	S(6)					E(5)	S(6)	S(6)
H09R 11	Jewellery: Piercing	S(5)	S(5)	S(5)	S(5)					S(5)	S(5)	S(5)
H1KL 11	Jewellery: Working with Wire	S(6)	S(6)	S(6)	S(6)					E(5)	S(6)	S(6)
H09S 11	Jewellery: Marking Out	S(5)	S(5)	S(5)	S(5)	S(5)	S(5)			E(4)	S(5)	S(5)
H09T 11	Jewellery: Soldering	S(5)	S(5)	S(5)	S(5)					E(4)	S(5)	S(5)
H1KM 11	Jewellery: Enamelling	S(5)	S(5)	S(5)	S(5)					E(5)	S(5)	S(5)
H0A2 11	Jewellery: Etching	S(5)	S(5)							E(4)	S(5)	S(5)
H09V 11	Jewellery: Non Precious Materials	S(5)	S(5)	S(5)	S(5)	S(5)	S(5)	S(5)	S(5)	E(4)	S(5)	S(5)

Appendix 5 Core Skills Mapping (cont)

Code	Title	Communication		Working with Others		Numeracy		ICT		Problem Solving		
		Written	Oral	Working Co-operatively with Others	Reviewing Co-operative Contribution	Using Numbers	Using Graphical Information	Accessing Information	Processing Information	Critical Thinking	Planning and Organising	Reviewing and Evaluating
Optional Units												
E9SR 11	Jewellery Project	S(6)	S(6)	S(6)	S(6)	S(6)	S(6)	S(6)	S(6)	E(5)	S(6)	S(6)
F3GB11	Communication	E(5)	E(5)									
F5H4 11	Introduction to CAD	S(6)	S(6)			S(6)	S(6)			E(5)	S(6)	S(6)
D969 11	Computer Applications: Design							S(6)	S(6)	S(6)	S(6)	S(6)