



**Arrangements for:
National Certificate in Screen Printing
at SCQF level 5**

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Acknowledgement

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

History of changes

It is anticipated that changes will take place during the life of the qualification, and this section will record these changes. This document is the latest version and incorporates the changes summarised below.

Version number	Description	Date
02	H23W 75 Literacy <i>has been added as an alternative to</i> F3GB 11 Communication	19/05/2014

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1 Introduction

This is the Arrangements Document for the new National Certificate in Screen Printing at SCQF level 5 which was validated in May 2011. 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 National Certificate in Screen Printing at SCQF level 5 has been developed under the design principles for National Certificate Awards.

This new qualification will act as a route to a suite of qualifications in screen printing. It has been designed to provide candidates with a unique opportunity to develop design and technical skills in a variety of creative and commercial processes for the screen printing, digital, design, and printing industries.

As a National Certificate (NC) the programme should produce employment ready candidates on its completion. The broad range of core and transferable skills which candidates have the opportunity to develop, coupled with hands on practical experience offered throughout this award, should enhance job prospects. The intention is to provide candidates with a sufficiently broad base of art, design, digital and screen printing skills pertinent to either employment in a screen printing environment, or alternatively, for progression to the National Certificate in Creative Printmaking at SCQF level 6 or in some cases progression to a diverse range of Higher National Certificate (HNC)/Diploma (HND) and degree programmes. The Higher National (HN) programmes include Digital Media, Printmaking, Fine Art and Contemporary Art Practice. An example of a potential job role would be an advanced trainee in the screen printing industry.

Candidates will learn in a diverse range of media where the integral nature of print in contemporary culture will be explored. The course will develop candidates' understanding and experience of working in a variety of screen printing and design media. The course is designed to develop key level awareness and appreciation of the technical skills with exposure to creative techniques used in the various production areas.

The knowledge and skills developed in the NC Screen Printing at SCQF level 5 have been mapped against relevant elements of the National Occupational Standards (NOS) Screen Printing Framework produced by the sector skills councils Proskills (Appendix 1).

2 Rationale for the development of the Group Award

The NC in Screen Printing serves to provide a flexible link between production skills, vocational education and employment. The programme has been designed to retain the key technical skills and computer based techniques used in the various production areas, together with experience of emerging technologies being introduced into the industry. The application of production techniques remained a focus for the programme.

Establishing the need for the qualification

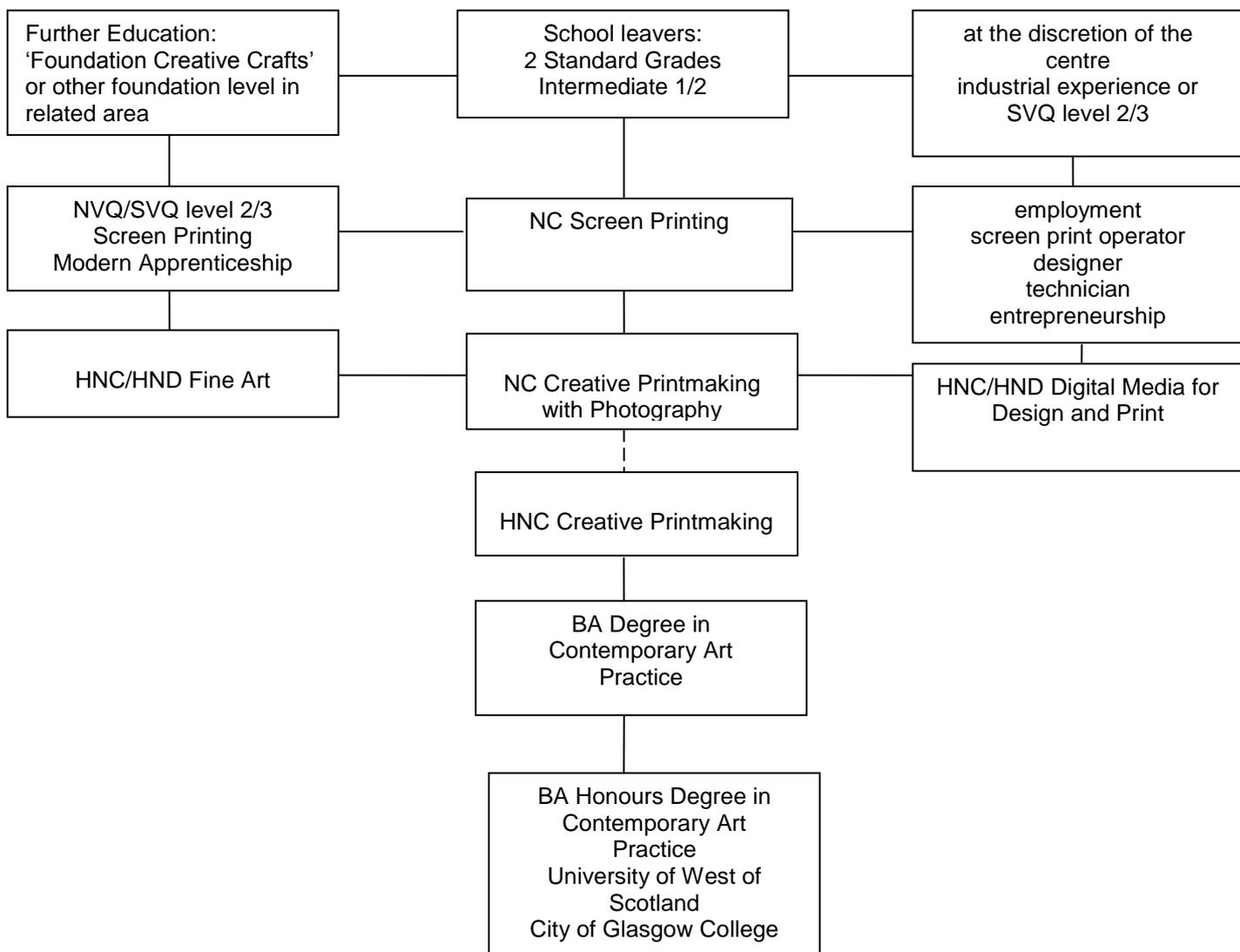
The need for the qualification was identified through directed market research using questionnaires generated by the Qualification Design Team (QDT) and targeted at learners, higher education and employers, as well as research focused on publications and internet sources generated by industry bodies. An analysis of candidate destination within one college indicated that candidates undertaking screen printing and related courses progressed to employment in screen printing, small business start-up, design studios, further education or to higher education.

The current college provision for screen printing was devised to meet the needs of candidates wishing to prepare themselves for a career in the commercial screen printing industry and related print industries or for candidates who were already in employment in commercial screen printing and requiring career development. The new NC in Screen Printing will continue to meet these requirements while also addressing an increasing demand for a wider range of screen printing skills for the creative industries. The proposed changes to the existing award will facilitate the flexibility within the design of the award to meet the needs of the wider screen printing industries, both commercial and creative.

The framework and content of the new NC Screen Printing course is intended to provide a suitable route for those candidates requiring a career in screen printing. The course will continue to meet the requirements of candidates wishing to prepare themselves for a career in the screen printing industry and related print industries or of candidates who are already in employment and require career development.

NC Screen Printing Progression Pathway

The QDT recognise that candidates applying for the course are likely to be school leavers or mature adult returners. It is anticipated that candidates could also enter from a foundation level Creative Crafts and Photography course or from any other relevant course at access level. Candidates may have previous industry experience which would prove beneficial but would not be essential for entry to the programme. Entry would be at the discretion of the centre and an interest in screen printing would be expected. The following diagram illustrates potential progression routes.



3 Aims of the Group Award

This qualification has been developed for a range of possible candidates including young learners through to adult returners who wish to consider entering into a career in the screen printing sector and are ready to commit to a full-time programme. The aims outlined in the following sections reflect the intention to provide a national qualification level course which will facilitate access to further study for a wide range of candidate profiles. This award will become the entry point for some candidates who could progress from school through to further study at a higher level.

3.1 Principal aims of the Group Award

The principal aims of the qualification are to:

- ◆ provide candidates with skills and knowledge of the screen printing sector so that they can consider the area for employment or future training study.
- ◆ develop a critical thinking capacity and reflective evaluation process within the screen printing environment.
- ◆ develop a broad based curriculum that can facilitate vocational specialist skills acquisition taking account of relevant health and safety considerations.
- ◆ develop candidates' creative processes and visual language.
- ◆ develop candidates' employability skills for screen printing.
- ◆ provide opportunities for progression within the Scottish Credit and Qualifications Framework (SCQF).
- ◆ provide candidates with opportunities to develop awareness of how screen printing services the printing, publishing and digital industries.

3.2 Other aims of the Group Award

Other, general aims of this course are to:

- ◆ develop candidates' knowledge and skills in planning, analysing and synthesising.
- ◆ provide opportunities to develop Core Skills including *Communication, Numeracy, Working with Others, Problem Solving* and *ICT*.
- ◆ provide candidates with a range of learning, teaching and assessment styles, which motivates them to achieve their full potential.
- ◆ encourage candidates to develop a positive attitude to their own learning.
- ◆ provide opportunities for candidates to develop organisational skills.
- ◆ encourage flexibility and work co-operatively with others thus meeting the aims of Curriculum for Excellence.
- ◆ encourage candidates to undertake project work involving the integration and application of a variety of skills within a determined timeframe.
- ◆ develop entrepreneurship and professional business practice for screen printing.
- ◆ develop candidates' communication, team working and critical thinking skills in the context of screen printing.

3.4 Principal aims mapped to mandatory Units

Table 1 illustrates where the principal aims of the proposed NC are mapped to the mandatory Units. The other aims of the NC will be met not only by the content of the Units, but also in the range of learning and assessment approaches that will be used during delivery.

Table 1: Mapping aims to Units

Principal Aims	Screen Printing: An Introduction to the Process	Screen Printing: Computer Applications: An Introduction	Communication	Screen Printing: Multiple Colour Design Printed on Fabric	Screen Printing: An Introduction to the Floating Screen Technique	Screen Printing: Decorative Screen Printing on Non-Porous Substrate
Provide candidates with the skills and knowledge of the screen printing sector so that they can consider the area for employment or future training study.	✓	✓	✓	✓	✓	✓
Develop a critical thinking capacity and reflective evaluation process within the screen printing environment.	✓	✓	✓	✓	✓	✓
Develop a broad base curriculum that can facilitate vocational specialist skills acquisition, taking account of relevant health and safety considerations.	✓	✓	✓	✓	✓	✓
Develop candidate's creative processes and visual language	✓	✓	✓	✓	✓	✓
Develop candidate employability skills for screen printing.	✓	✓	✓	✓	✓	✓
Provide opportunities for progression within the Scottish Credit Qualification Framework (SCQF)	✓	✓	✓	✓	✓	✓
Provide candidates with opportunities to develop awareness of how screen printing services the printing, publishing and digital industries	✓	✓	✓	✓	✓	✓

3.5 Target groups

The National Certificate in Screen Printing at SCQF level 5 is aimed at young people who have left school in the relatively recent past and adult returners re-entering education. The course is also suitable for someone who has an interest in art and design for decorative printing or small business start-up in screen printing. It is envisaged that candidates may have progressed from a foundation level course in a print related discipline, or college access course.

The course is also designed to build on the exiting vocational skills of those already in employment within the screen printing industry who do not have formal qualifications.

3.4 Employment opportunities

The National Certificate in Screen Printing is primarily designed provide the basis for employment at a junior level. Successful completion of this qualification would also allow candidates to progress to the NC in Creative Printmaking with Photography or in some cases to a range of Higher National courses. Previously, successful candidates have gone on to further study in areas as diverse as publishing, environmental management and digital media at institutions including Caledonian University, University of the West of Scotland and Glasgow School of Art. Many candidates have succeeded as entrepreneurs with small businesses in t-shirt printing, banner and digital design work.

Other candidates have gone on to a Screen Printing Modern Apprenticeship programme. This scheme is aimed at young people between 16-24 years of age and certificated by the sector skills council Proskills.

4 Access to Group Award

Entry is at the discretion of the centre, however, an interest in screen printing or creative studies would be beneficial for candidates. There is no formal entry requirement for this award or the Units contained within it however each Unit has a recommended entry statement which clearly identifies useful prior knowledge and skills.

5 Group Award structure

Candidates will be awarded the NC in Screen Printing at SCQF level 5 on completion of 12 credits (72 SCQF points) made up from the following:

- ◆ 6 credits (36 SCQF points) from the mandatory section,
- ◆ 1 credit (6 SCQF points) from optional section group A
- ◆ 5 credits (30 SCQF points) from optional section group B.

5.1 Framework

Mandatory Units 6 Credits	Unit Code	SCQF level	Credit Value	
Screen Printing: An Introduction to the Process	FV51 11	5	1	Mandatory
Computer Applications for Print: An Introduction	FV52 11	5	1	Mandatory
Communication or Literacy	F3GB 11 H23W 75	5 5	1 1	Mandatory Mandatory
Screen Printing: Multiple Colour Design Printed on Fabric	FV53 11	5	1	Mandatory
Screen Printing: An Introduction to the Floating Screen Technique	FV54 11	5	1	Mandatory
Screen Printing: Decorative Screen Printing on Non-Porous Substrates	FV55 11	5	1	Mandatory
Total	6	5	6	

Optional Units- group A Candidates must take a minimum of 1 credit from the following group	Unit Code	SCQF level	Credit Value	
Art and Design: Project	F5CN 11	5	1	Optional
Customer Service Skills for the Entrepreneur	F5GB 11	5	1	Optional
Print Finishing: Introduction	FV5C 11	5	1	Optional
Creative Printmaking with Photography: Digital Techniques	FP9F 11	5	1	Optional
Art and Design: Printmaking	F5BV 11	5	1	Optional

Optional Units — group B Candidates must take a minimum of 5 credits from the following group	Unit Code	SCQF level	Credit Value	
Screen Printing: Monotone Fine Line and Halftone	FV56 12	6	1	Optional
Screen Printing: Four Colour Halftone Process	FV57 12	6	1	Optional
Art and Design: Creative Textile Development	F5C5 12	6	1	Optional
Health and Safety in the Work Environment	D11M 12	6	1	Optional
Screen Printing: Multiple Image Printing on Plastic Substrate	FV58 12	6	1	Optional
Offset Lithograph Printing: Two Colour Text and Line	FV5A 12	6	1	Optional
Creative Printmaking with Photography: Visual Presentation	FP9C 12	6	1	Optional
Creative Printmaking with Photography: Professional Business Practice	FP9D 12	6	1	Optional
Art/Design: Project 1: Exhibition Design	E9SM 12	6	2	Optional

5.2 Mapping information

National Occupational Standards (NOS)

The Scottish Vocational Qualifications (SVQs) at level 2 and 3 are nationally recognised qualifications for production workers in the printing industry based on the NOS created by Proskills. Modern Apprentices in the screen printing industry are expected to complete these qualifications during their training.

SVQs in Screen Printing provide alternative specialist routes including: machine printing, mechanised print finishing and binding, hand binding and pre-press. A group of mandatory Units are common to the four specialist routes and each route has further specialist mandatory Units and optional Units.

Appendix 1 maps the SVQs and Units from the NC in Screen Printing. The new course structure was devised to incorporate underpinning knowledge into several screen printing Units which is seen as essential when working in a modern creative industry environment. The qualification has been designed to include essential and desirable skills and knowledge in the development of mandatory and optional Units. Appendix 2 shows how the level descriptor for SCQF level 5 has been mapped against the Units making up this award to demonstrate that the level is commensurate with the identified level of the SCQF level 5.

Core Skills

Opportunities to develop aspects of the Core Skills at SCQF level 5 are identified in Appendix 3. There are opportunities to develop all five of the Core Skills within this award. For example, candidates may be asked to use *ICT* in their research. *Numeracy* may be evidenced by activities such as measuring inks and paper sizes. More information regarding the development of Core Skills can be found in the support notes of the individual Units which make up this award. Development of Core Skills will take place during learning and teaching activities as well as through assessment of practical activities, which candidates have been involved in planning and delivering, and their own reflections on such activities.

Core Skills entry and exit profile

Core Skill	Anticipated Entry Level	Anticipated Exit Level
Communication	Level 4	Level 5 Certificated
Using Numbers	Level 4	Level 4 Signposted
ICT	Level 4	Level 5 Signposted
Problem Solving	Level 4	Level 5 Signposted*
Working with Others	Level 4	Level 5 Signposted*

*Components of *Problem Solving*, and *Working with Others* are automatically certificated as below:

Achievement of *Communication F3GB 11* will give automatic certification of the Core Skill *Communication*.

Achievement of *Screen Printing: An Introduction to the Floating Screen Technique FV54 11* will give automatic certification of the components *Working Co-operatively with Others (Working with Others)* and *Critical Thinking (Problem Solving)* both at SCQF level 5

Achievement of *FV5C 12 Print Finishing: An Introduction* will give automatic certification of the Core Skills component *Critical Thinking (Problem Solving)* at SCQF level 4

Achievement of the following Units will give automatic certification of the Core Skills components *Critical Thinking (Problem Solving)* and *Planning and Organising (Problem Solving)* both at SCQF level 5.

FV51 11	Screen Printing: An Introduction to the Process
FV53 11	Screen Printing: Multiple Colour Design Printed on Fabric
FV55 11	Screen Printing: Decorative Screen Printing on a Non Porous Substrate
F5CN 11	Art and Design: Project

Achievement of the following Units will give automatic certification of the Core Skills component *Critical Thinking (Problem Solving)* at SCQF level 5.

FV5A 12	Offset Lithographic Machine Printing: Two Colour Text and Line
FP9F 12	Creative Printmaking with Photography: Digital Techniques
FP9C 11	Creative Printmaking with Photography: Visual Presentation
FV58 12	Screen Printing: Multiple Image Printing on Plastic Substrate

Information and Communication Technology and Numeracy are not automatically certificated but have opportunities for development. These are mapped in table 6. The delivery of this award will encourage the use of a wide range of delivery methods and styles and candidates will be required to undertake tasks including:

- ◆ simple research
- ◆ group work
- ◆ taking part in practical screen printing.
- ◆ contribute to the planning of activities including visits and exhibitions.
- ◆ taking responsibility for Health & Safety.
- ◆ planning steps to employability skills.
- ◆ reviewing own progress and experiences.

5.3 Articulation, professional recognition and credit transfer

Articulation

Candidates will be well prepared to embark on a National Certificate in Creative Printmaking with Photography at SCQF level 6. In some cases candidates may be able to progress directly to an Higher National programme such as HNC Printmaking, HNC/HND Fine Art, HNC/HND Digital Media, BA Degree in Contemporary Art and Degree in Contemporary Art Practice (Hons).

Credit Transfer

Candidates who have suitable prior qualifications or experience may be eligible for credit transfer for Units in NC Screen Printing. Centres should follow appropriate procedures in cases where this arises.

6 Approaches to delivery and assessment

6.1 Content and context

NC Screen Printing at SCQF level 5 is intended for full time delivery to candidates wishing to find out more about the kind of work performed in this occupational sector. The NC is designed as a full time course and the emphasis is on developing candidates' own personal qualities and skills for future employment in the screen printing industry. Assessment will be carried out during practical activities using observation checklists with assessor feedback. The candidate will also develop an understanding within each subject area and the approach to learning will be supported by visits to screen printing companies, art galleries and exhibitions. The candidate learning experience will be consistent with organisational policy with respect to equality and diversity, and in all areas of work individuals will be dealt with fairly irrespective of their age, background, disability, gender, political belief, race religion and sexual orientation.

There is underpinning knowledge required for each subject area. However a key feature of the NC is the emphasis on experiential learning which means learning through practical activity and learning by reflecting on experience. The screen printing industry is heavily mechanised and wherever possible, delivery and assessment will be of a practical nature.

The NC is designed to create an exit route to a particular level of job role in the screen printing sector as a trainee designer, operator or alternatively to lead to further learning. The course will be delivered, bearing in mind the main target market, using practical based learning and assessment, which also reflects the requirements of the industry. There is some requirement for the delivery of the underpinning knowledge in each of the Units and this will be delivered and assessed in an appropriate manner for the target audience.

The 12 credits within this qualification have been designed to provide candidates with an overview of the screen printing sector, existing employment opportunities and the skills, experience and qualifications which are necessary to pursue an identified job role. The programme will provide an understanding of the wider screen printing industry and the need to understand the quality required for printed products as well as providing the opportunity to develop customer and entrepreneurial skills required by prospective clients.

Furthermore, by undertaking this programme of study, candidates will be involved in planning their own involvement in a number of project based and practical activities which will enhance awareness and understanding of their own current employability skills and steps they can take to improve these. Candidates who undertake this Group Award will not only gain understanding, knowledge and skills specific to the screen printing sector, but should also develop confidence and personal awareness, that will enable them to undertake further study. Table 2 shows a proposed delivery schedule.

Table 2: NC Screen Printing proposed delivery schedule

Unit	Mandatory/Optional	Year	Block
FV51 11 Screen Printing: An Introduction to the Process	Mandatory	1	1
FV52 11 Computer Applications for Print: An Introduction	Mandatory	1	1
F5CN 11 Art and Design: Project	Optional	1	1
D11M12 Health and Safety in the Work Environment	Optional	1	1
F5C5 12 Art and Design: Creative Textile Development	Optional	1	1
FV58 12 Screen Printing: Multiple Image Printing on Plastic Substrate	Optional	1	1

Unit	Mandatory/Optional	Year	Block
F3GB 11 Communication	Mandatory	1	2
FV54 11 Screen Printing: An Introduction to the Floating Screen Technique	Mandatory	1	2
F5BV 11 Art and Design: Printmaking	Optional	1	2
FP9F 11 Creative Printmaking with Photography: Digital Techniques	Optional	1	2
E9SM12 Art/Design Project 1: Exhibition Design	Optional	1	2/3
FV56 12 Screen Printing: Monotone Fine Line and Halftone	Optional	1	2
FP9D 12 Creative Printmaking with Photography: Professional Business Practice	Optional	1	2

Unit	Mandatory/Optional	Year	Block	
FV55 11	Screen Printing: Decorative Screen Printing on Non- Porous Substrates	Mandatory	1	3
FV53 11	Screen Printing: Multiple Colour Design Printed on Fabric	Mandatory	1	3
FP9C 12	Creative Printmaking with Photography: Visual Presentation	Optional	1	3
FV5C 11	Print Finishing: An Introduction	Optional	1	3
FV5A 12	Offset Lithographic Machine Printing: Two Colour Text and Line	Optional	1	3
FV57 12	Screen Printing: Four Colour Halftone Process	Optional	1	3
F5GB 11	Customer Service Skills for the Entrepreneur	Optional	1	3
E9SM 12	Art and Design Project 1: Exhibition Design	Optional	1	2/3

6.2 Delivery and assessment

The NC in Screen Printing has been developed to facilitate flexible delivery and assessment, which is intended to be of a practical nature and wherever possible, reflecting the practical nature of the screen printing industry. Delivery models will be dependent on the centre and the client group. For example, it could be offered on a day release basis over one academic year, or a 36 week full time programme or perhaps three days a week for adult returners in a college. There is flexibility for centres to use an approach which is best aligned to their own situation and that of their learners.

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

The suggested delivery indicates how skills are developed during a one year course though these suggested patterns should not be seen as prescriptive but used as guides for centres devising their own programmes. The scheduling of the mandatory Units in the programme is of particular importance in the academic year enabling candidate to develop their software and hardware skills as well as their knowledge and skills of the processes and disciplines within the modern screen printing industry.

It is intended that this award is delivered as a coherent, integrated course of study and that the selected options reflect the specialist nature of the discipline selected by the candidate or centre.

The content of each Unit will be delivered through a series of lectures, practical workshops and activities which will be carried out as part of the candidates' commitment to self directed study. Tutorial sessions should be set up to support candidates through this programme and will build their confidence as they progress. The learning content will increase the candidates' ability to create a quality portfolio of work. Each Unit is individually assessed and candidates will be expected to hand in work to meet specified deadlines as meeting deadlines is an essential element of the course.

During the learning process the candidate's skills in the following areas will be developed:

- ◆ organising
- ◆ communicating
- ◆ research
- ◆ logical and analytical thinking
- ◆ decision making
- ◆ problem solving
- ◆ co-operating with others (teamwork)
- ◆ vocational adaptability

The main topics of study include:

- ◆ creative and traditional methods of screen printing
- ◆ communication
- ◆ customer service skills and professional business practice
- ◆ ICT and digital techniques
- ◆ machine printing and print finishing

6.3 Integration between Units

It is important to demonstrate to candidates that the course is a cohesive coverage of the subject and not simply a set of disparate Units. The work undertaken in earlier Units provides building blocks for later Units. There are many examples of this:

- ◆ FV51 11 *Screen Printing: An Introduction to the Process* underpins and provides the groundwork for a range of more specialised screen printing Units.
- ◆ FV53 11 *Screen Printing: Multiple Colour Design Printed on Fabric* provides underpinning knowledge and skills for F5C5 12 — *Art and Design: Creative Textile Development*. These Units are designed to target the banner, tapestry and furniture/upholstery market.
- ◆ FV52 11 *Computer Applications for Print: An Introduction* is a starting point in computing and leads on to the new Units FP9F 11 *Creative Printmaking with Photography: Digital Techniques* and FP9C 12 *Creative Printmaking with Photography: Visual Presentation*. Both Units give a comprehensive delivery within the ICT and Digital markets.

- ◆ F5GB 11 *Customer Service Skills for the Entrepreneur* provides a base for FP9D 12 *Creative Printmaking with Photography: Professional Business Practice*. These Units are essential for anyone looking to start up a small business and gives advice on grant aid, copyright, finance, vat and credit control.
- ◆ FV56 12 *Screen Printing: Monotone Fine Line and Halftone* enables the candidate to produce quality images and gives the experience of working with fine detail for FV57 12 *Screen Printing: Four Colour Halftone Process* which is designed to develop candidates' knowledge, understanding and skills thus enabling the candidate to produce four colour halftones, stencils during the production of screen prints.
- ◆ FV5A 12 *Offset Lithographic Machine Printing: Two Colour Text and Line* is intended for candidates who wish to enhance their knowledge of lithographic printing. Candidates are expected to research and produce artwork for printing plates which are used in the production of two colour printed images. The images can be used in the transference of finished products and can be integrated in the Unit FV5C 11 *Print Finishing: an Introduction* which incorporates guillotine trimming, folding, securing methods and binding styles.
- ◆ FV51 11 *Screen Printing: An Introduction to the Floating Screen Technique* is an innovative process where candidates experience different screen printing techniques without using traditional methods. It explores decorative surface printing on nominal large flat surfaces for exhibition work. It is considered a more flexible method of screen printing in the sense that the screen is brought to the area allowing for greater transportation of design and is an excellent process for wall and floor decoration. The Unit is also designed to introduce team project work and for the group to explore design concepts and ideas suitable for floating screen principles.

The NC in Screen Printing provides mandatory and optional sections which reflect on the essential subjects contained within the course and includes a broad range of specialised Units. As a result of the number of different specialist skills involved, the integration of assessments is most likely to take place within, as well as between Units. The Unit specifications should provide opportunities for integration for those who want to offer a project-based course reflecting particular specialisms. Increased resources and new screen printing equipment may also be added to modernise the course which will not only improve learning and teaching but keep in line with new technology and current industry standards.

6.4 Open learning

Although not specifically designed as an online or open learning programme there is scope for e-learning and e-assessment of theoretical components. However, in the case of practical activities, such as undertaking screen printing activity, e-assessment is not appropriate and in these cases other forms of evidence could be encouraged such as video recording.

Full details on the suitability of individual Units for open learning are contained in each individual Unit specification. Delivery by open learning would require planning by the centre to ensure sufficiency and authenticity of candidate evidence. Arrangements would have to be made to ensure closed-book assessments were conducted under supervision.

6.5 Essential skills

The essential developed in most of the Units will transfer not only to the other subjects within the course but into the general life skills of the candidates. The Unit *Health and Safety in the Work Environment* (D11M 12) not only incorporates current legislation of the *Health and Safety at Work Act 1974*, *Safety Hazards*, *COSHH* and *Reporting of Accidents* but is also an integral part of each practical based Unit.

The new NC structure is designed to incorporate underpinning knowledge into several screen printing Units. This underpinning knowledge is seen as essential when working in a modern creative screen printing industry environment. This qualification has been designed to include essential and desirable skills and knowledge in the development of mandatory and optional Units.

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 in Screen Printing at SCQF level 5 is suitable for candidates who are interested in a career in creative printmaking or industrial screen printing. It covers a wide range of topics including traditional and modern printing techniques. You will learn about preparing images for printing and how to present your finished images in a professional way. The course will also help to prepare you for work whether you chose to work for yourself or an employer.

Through a combination of lectures, practical workshops and activities you will learn, using modern equipment that would commonly be found in industry.

You will be expected to hand in work to meet specified deadlines as well as being observed during practical tasks by your tutor.

The course is made up of twelve Units. Six of these Units are fixed, also known as mandatory, but you may be able to choose the other six depending on your preferences and what your tutor agrees would be suitable for you. At the end of your course you will be ready to go on to further study at SCQF level 6 with the Creative Printmaking National Certificate or, in some cases, to HNC level or you may choose to apply for a job such as junior print technician. Alternatively you may consider setting up your own business. There is a wide range of Units to help you to prepare for all of these progression routes.

You will also have the opportunity to develop all five Core Skills: *Communication; Numeracy; Working with Others; Information and Communication Technology (ICT) and Problem Solving* throughout the course. Many of the activities you do will help you to develop these such as using computers to prepare images for printing or measuring inks and papers. In addition you will consider wider issues such as the impact of printing on the environment and what steps can be taken to minimise this.

There are no formal entry requirements for this course and each candidate will be assessed by the college on an individual basis to see if they are suitable for the course.

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: Mapping of National Occupational Standards

Appendix 2: Mapping of Units to SCQF level descriptors

Appendix 3: Core Skills development within individual Units

Appendix1: Mapping of National Occupational Standards to Units — NC Screen Printing

		Comply to Health and Safety in the Workplace 021	Improve Your Performance at work 022	Ensure your own actions, reduce risks to Health and Safety in the Workplace 031	Improve Individual and Organisational Performance 032	Contribute to Maintaining Equipment in Working Order 030	Prepare Equipment and Machines for Screen Printing 217	Operate Screen Printing Machines 218	Control Screen Printing Machines 239
FV51 11	Screen Printing: An Introduction to the process	✓	✓	✓	✓	✓	✓	✓	✓
FV52 11	Computer Applications for Print: An Introduction	✓	✓	✓	✓				
F3GB 11	Communication		✓		✓				
FV53 11	Screen Printing: Multiple Colour Design Printed on Fabric	✓	✓	✓	✓	✓	✓	✓	✓
FV54 11	Screen Printing: An Introduction to the Floating Screen Technique	✓	✓	✓	✓	✓	✓		
FV55 11	Screen Printing: Decorative Printing on Non-Porous Substrate	✓	✓	✓	✓	✓	✓	✓	✓

Unit Code	Optional Units Screen Printing	National Occupational Standards (NOS) Optional Units								
		Operate in-line converting equipment 203	Operate ink drying equipment 204	Prepare inks 206	Prepare stencils for printing 219	Operate the reel handling equipment 211	Plan image layout for printing 102	Identify and organise the requirements for production 006	Control in-line converting machinery 230	Control ink drying machinery 231
F5CN 11	Art and Design: Project		✓	✓	✓		✓	✓		✓
F5GB 11	Customer Service Skills for the Entrepreneur									
FV5C 11	Print Finishing: An Introduction	✓				✓		✓	✓	
E9SM 12	Art and Design Project 1: Exhibition Design		✓	✓	✓		✓	✓		✓
FP9F 11	Creative Printmaking with Photography: Digital Techniques						✓			
FV56 12	Screen Printing: Monotone Fine Line and Halftone		✓	✓	✓		✓	✓		✓
FV57 12	Screen Printing: Four Colour Halftone Process		✓	✓	✓		✓	✓		✓
F5C5 12	Art and Design: Creative Textile Development		✓	✓	✓		✓	✓		✓
D11M 12	Health and Safety in the Work Environment	✓	✓	✓	✓				✓	✓
FV58 12	Screen Printing: Multiple Image Printing on Plastic Substrate		✓	✓	✓		✓	✓		✓
FV5A 12	Offset Lithographic Machine Printing: Two Colour Text and Line			✓			✓	✓		
FP9C 12	Creative Printmaking with Photography: Visual Presentation									
FP9D 12	Creative Printmaking with Photography: Professional Business Practice									

Appendix 2: Mapping Units to SCQF level descriptors

SCQF level 5 Descriptor Mapped Against Units		Screen printing: An Introduction	Computer Applications for Print: An Introduction	Communication:	Screen Printing: Multiple colour design printed on fabric	Screen Printing: An introduction to the floating screen technique	Screen Printing: Decorative printing on non-porous substrate
Mandatory Units							
<i>Characteristic Outcomes of learning at each level include the ability to:</i>							
Knowledge and Understanding	Demonstrate and/or work with: Basic knowledge in a subject/discipline which is mainly factual but has some theoretical component,	√	√		√	√	√
	A range of simple facts and ideas about and associated with a subject/discipline.	√	√		√	√	√
	Knowledge and understanding of basic processes, materials and terminology.	√	√		√	√	√
Practice: Applied knowledge and understanding	Relate ideas and knowledge to personal and/or practical contexts.	√	√		√	√	√
	Complete some routine and non-routine tasks using knowledge associated with a subject/discipline.	√	√		√	√	√
	Plan and organise both familiar and new tasks.	√	√		√	√	√
	Select appropriate tools and materials and use safely and effectively (eg without waste).	√			√	√	√
	Adjust tools where necessary following safe practices.	√			√	√	√
Generic Cognitive Skills	Use a problem solving approach to deal with a situation or issue, which is straightforward in relation to a subject/discipline.	√	√		√	√	√
	Operate in a familiar context, but where there is a need to take account of or use additional information of different kinds, some of which will be theoretical or hypothetical.	√	√		√	√	√
	Use some abstract constructs, eg make generalizations and/or draw conclusions.	√	√		√	√	√
Communication, ICT and numeracy skills	Produce and respond to detailed written and oral communication in familiar contexts.	√		√	√	√	√
	Use standard applications to process, obtain and combine information.	√	√	√	√	√	√
	Use a range of numerical and graphical data in straightforward contexts, which have some complex features.	√			√	√	√
Autonomy, accountability and working with others	Work alone or with others on tasks with minimum supervision.	√	√	√	√	√	√
	Agree goals and responsibilities for self and/or work team with manager/supervisor.	√			√	√	√
	Take leadership responsibility for some tasks			√		√	√
	Show an awareness of others' roles, responsibilities and requirements in carrying out work and make a contribution to the evaluation and improvement of practices and processes.	√		√	√	√	√

SCQF level 5 Descriptor Mapped Against Units		Art and Design Project	Customer Service Skills for the Entrepreneur	Print Finishing: Introduction	Art and Design Project 1: Exhibition Design	Printmaking: Digital Techniques	Art and Design: Printmaking
Mandatory/Optional Units							
<i>Characteristic Outcomes of learning at each level include the ability to:</i>							
Knowledge and Understanding	Demonstrate and/or work with: Basic knowledge in a subject/discipline which is mainly factual but has some theoretical component,	√	√	√	√	√	√
	A range of simple facts and ideas about and associated with a subject/discipline.	√	√	√	√	√	√
	Knowledge and understanding of basic processes, materials and terminology.	√	√	√	√	√	√
Practice: Applied knowledge and understanding	Relate ideas and knowledge to personal and/or practical contexts.	√	√	√	√	√	√
	Complete some routine and non-routine tasks using knowledge associated with a subject/discipline.	√	√	√	√	√	√
	Plan and organise both familiar and new tasks.	√	√	√	√	√	√
	Select appropriate tools and materials and use safely and effectively (eg without waste).						
	Adjust tools where necessary following safe practices.			√	√		√
Generic Cognitive Skills	Use a problem solving approach to deal with a situation or issue, which is straightforward in relation to a subject/discipline.	√	√	√	√	√	√
	Operate in a familiar context, but where there is a need to take account of or use additional information of different kinds, some of which will be theoretical or hypothetical.	√	√	√	√	√	√
	Use some abstract constructs- eg make generalizations and/or draw conclusions.	√	√	√	√	√	√
Communication, ICT and numeracy skills	Produce and respond to detailed written and oral communication in familiar contexts.	√	√	√	√	√	√
	Use standard applications to process, obtain and combine information.	√	√	√	√	√	√
	Use a range of numerical and graphical data in straightforward contexts, which have some complex features.	√		√	√	√	√
Autonomy, accountability and working with others	Work alone or with others on tasks with minimum supervision.	√	√	√	√	√	√
	Agree goals and responsibilities for self and/or work team with manager/supervisor.		√	√	√		√
	Take leadership responsibility for some tasks		√	√	√		
	Show an awareness of others' roles, responsibilities and requirements in carrying out work and make a contribution to the evaluation and improvement of practices and processes.		√	√	√		√

SCQF level 6 Descriptor Mapped Against Units		Screen Printing: Monotone Fine Line and Halftone	Screen Printing: Four colour Halftone	Art and Design: Creative Textile Development	Health and Safety in the Work Environment	Screen Printing: Multiple Image Printing on Plastic Substrate	Machine Printing — Two Colour Text and Line	Printmaking: Professional Business Practice	Printmaking: Visual Presentation
Optional Units									
Knowledge and Understanding Demonstrate and/or work with:	Generalised knowledge of a subject/discipline								
	Factual and theoretical knowledge	√	√	√	√	√	√	√	√
	A range of facts, ideas properties, materials, terminology, practices, and techniques about/associated with a subject/discipline.	√	√	√	√	√	√	√	√
	Relate the subject/discipline to a range of practical and/or everyday applications.	√	√	√	√	√	√	√	√
Practice: Applied knowledge and understanding	Apply knowledge and understanding in known, practical contexts.	√	√	√	√	√	√	√	√
	Use some of the basic, routine practices, techniques and/or materials associated with a subject/discipline in routine contexts, which may have non-routine elements.	√	√	√	√	√	√	√	√
	Plan how skills will be used to address set situations and/or problems and adapt these as necessary.	√	√	√	√	√	√	√	√
Generic Cognitive Skills	Obtain, organise and use factual and theoretical information in problem solving.	√	√	√	√	√	√	√	√
	Make generalizations and predictions.	√	√	√	√	√	√	√	√
	Draw conclusions and suggest solutions.	√	√	√	√	√	√	√	√
Communication, ICT and numeracy skills Use a wide range of skills — for example	Produce and respond to detailed and relatively complex written and oral communication in both familiar and unfamiliar contexts.								
	Select and use standard applications to process, obtain and combine information.	√	√	√	√	√	√	√	√
	Use a wide range of numerical and graphical data in routine contexts, which may have non-routine elements.	√	√	√		√	√	√	√
Autonomy, accountability and working with others	Take responsibility for the carrying out of a range of activities, where the overall goal is clear, under non-directive supervision.	√	√	√	√	√	√	√	√
	Take some supervisory responsibility for the work of others and lead established teams in the implementation of routine work	√	√	√		√	√		
	Manage limited resources within defined and supervised areas of work.	√	√	√		√	√		
	Take account of roles and responsibilities related to the tasks being carried out and take a significant role in the evaluation of the work and the improvement of practices and processes.	√	√	√		√	√		

Appendix 3: Core Skills development within individual Units

Mandatory Units	Unit Code	Communication		Working with others		Numeracy		ICT		Problem solving		
		Written	Oral	Working co-operatively with others	Reviewing co-operatively with others	Using numbers	Using graphical information	Accessing information	Processing information	Critical thinking	Planning and organizing	Reviewing and evaluating
Screen Printing: An Introduction to the Process	FV51 11			√(5)S	√(5)S			√(5)S	√(5)S	√(5)E	√(5)E	√(5)S
Computer Applications for Print: An Introduction	FV52 11							√(5)S				
Communication	F3GB 11	√(5)E	√(5)E									
Screen Printing: Multiple Colour Design Printed on Fabric	FV53 11			√(5)S	√(5)S			√(5)S	√(5)S	√(5)E	√(5)E	√(5)S
Screen Printing: An Introduction to the Floating Screen Technique	FV54 11			√(5)E	√(5)S			√(5)S	√(5)S	√(5)E	√(5)S	√(5)S
Screen Printing: Decorative Printing on Non-Porous Substrate	FV55 11			√(5)S	√(5)S			√(5)S	√(5)S	√(5)E	√(5)E	√(5)S

Key

√ — Development of Core Skills, or Core Skills component within Unit E — Core Skills development is embedded within the Unit
 (No.) — SCQF level of Core Skill development S — Core Skills development is signposted within the Unit

Core Skills development within individual Units

Optional	Unit Code	Communication		Working with others		Numeracy		ICT		Problem solving		
		Written	Oral	Working co-operatively with others	Reviewing co-operatively with others	Using numbers	Using graphical information	Assessing information	Providing Creating information	Critical thinking	Planning and organizing	Reviewing and evaluating
Art and Design: Project	F5CN 11			√(5)S	√(5)S			√(5)S	√(5)S	√(5)E	√(5)E	√(5)S
Customer Service Skills for the Entrepreneur	F5GB 11	√(5)S	√(5)S	√(5)S	√(5)S	√(4)S	√(4)S	√(5)S	√(5)S	√(5)S	√(5)S	√(5)S
Print Finishing: An Introduction	FV5C 11			√(5)S	√(5)S	√(4)S	√(4)S			√(4)E		
Art and Design Project 1: Exhibition Design	E9SM12			√(5)S	√(5)S			√(5)S	√(5)S	√(5)S	√(5)S	√(5)S
Creative Printmaking with Photography: Digital Techniques	FP9F 11	√(5)S		√(5)S	√(5)S	√(4)S		√(5)S	√(5)S	√(5)E		√(5)S
Art and Design: Printmaking	F5BV 11	√(4)S	√(4)S							√(5)S	√(5)S	√(5)S
Screen Printing: Monotone Fine line and Halftone	FV56 12			√(5)S	√(5)S					√(5)S	√(5)S	√(5)S
Screen Printing: Four Colour Halftone Process	FV57 12			√(5)S	√(5)S					√(5)S	√(5)S	√(5)S
Art and Design: Creative Textile Development	F5C5 12	√(5)S	√(5)S					√(5)S		√(5)S	√(5)S	√(5)S
Health and Safety in the Work Environment	D11M 12							√(5)S	√(5)S			
Screen Printing: Multiple Image Printing on Plastic Substrate	FV58 12							√(5)S	√(5)S	√(5)E	√(5)S	√(5)S
Offset Lithographic Machine Printing — Two Colour Text and Line	FV5A 12			√(5)S		√(4)S		√(5)S	√(5)S	√(5)E		
Creative Printmaking with Photography: Visual Presentation	FP9C 12							√(5)S	√(5)S	√(5)E		
Creative Printmaking with Photography: Professional Business Practice	FP9D 12					√(4)S	√(4)S					