



National Unit specification: general information

Unit title: Screen Printing: Multiple Image Printing on Plastic Substrate (SCQF level 6)

Unit code: FV58 12

Superclass: KH

Publication date: October 2011

Source: Scottish Qualifications Authority

Version: 02

Summary

The purpose of the Unit is to enable the candidates to develop their knowledge and skills by screen printing multiple images in register on one sheet of plastic material, commonly used for high volume screen printing. This Unit is mainly practical based with some elements of theory and will be delivered in a workshop environment.

It is envisaged that candidates may have progressed from a foundation level course in print related disciplines. This is an optional Unit in the National Certificate in Screen Printing at SCQF Level 5. It can also be taken as a freestanding Unit. It is suitable for school leavers and adult learners who are undertaking a screen printing course or who are already working in the industry.

This Unit is suitable for candidates who are undertaking a screen printing course.

Outcomes

- 1 Describe and explain the process of multiple image screen printing on plastic substrate
- 2 Produce a design and stencils, suitable for multiple printing in register, on plastic substrate.
- 3 Produce prints on plastic substrate

Recommended entry

Although entry is at the discretion of the centre it would be beneficial for candidates to have: *Screen Printing: An Introduction to the Process* (SCQF level 5).

General information (cont)

Unit title: Screen Printing: Multiple Image Printing on Plastic Substrate (SCQF level 6)

Credit points and level

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

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

Core Skills

Achievement of this Unit gives automatic certification of the following Core Skills component:

- ◆ Critical Thinking at SCQF level 5

There are also opportunities to develop aspects of Core Skills which are highlighted in the Support Notes of this Unit specification.

National Unit specification: statement of standards

Unit title: Screen Printing: Multiple Image Printing on Plastic Substrate (SCQF level 6)

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

Outcome 1

Describe and explain the process of printing multiple images on plastic substrate.

Performance Criteria

- (a) Explain correctly the applications of screen printing of multiple images on plastic.
- (b) Describe correctly the printing procedures used for multiple printing on plastic.

Outcome 2

Produce a design and stencils suitable for multiple printing in register on plastic substrate.

Performance Criteria

- (a) Produce a multiple coloured image that meets the requirements of a supplied brief.
- (b) Produce accurate film separations and stencils that meet the requirements of a supplied brief.

Outcome 3

Produce prints on plastic substrate

Performance Criteria

- (a) Print multiple images on plastic substrate that meet the requirements of a supplied brief.
- (b) Present finished prints that meet the requirements of a supplied brief.

National Unit specification: statement of standards (cont)

Unit title: Screen Printing: Multiple Image Printing on Plastic Substrate (SCQF level 6)

Evidence Requirements for this Unit

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

The teacher/lecturer should encourage group discussion and review a range of basic designs and images used in this type of screen printing process to allow the candidate to make an informed design selection in response to the given brief, which will be drawn up in consultation with the teacher/lecturer.

Outcome 1

Written/oral or recorded evidence must be provided to show the candidate has an understanding of the multiple screen printing process including:

- ◆ an explanation of the purpose and applications of the technique in the screen printing industry with the emphasis on cost, materials and time
- ◆ a description of the procedure for design assembly on pre-press software, film preparation, stencil making, print set up and application

Outcome 2

The candidate, in consultation with teacher/lecturer, will produce a concise and accurate project brief that includes all stages:

- ◆ the number and specification of the colours to be printed, a minimum of two are required
- ◆ a description of the type of substrate that is to be printed
- ◆ the number of prints that will be produced
- ◆ the time schedule for production
- ◆ the design origination which will include all the colours in the project
- ◆ the film colour separations and evidence of the production of quality stencils for printing

Outcome 3

Practical and product evidence must be provided to show that the candidate can carry out the production of prints on plastic substrate that meet the requirements of the brief and include:

- ◆ printing a minimum of four multiple images on plastic substrate and produce finished prints that meet the requirements of the design brief
- ◆ finished prints reviewed and presented that meets all the requirements of a supplied brief

National Unit specification: support notes

Unit title: Screen Printing: Multiple Image Printing on Plastic Substrate (SCQF level 6)

This part of the Unit specification is offered as guidance. The support notes are not mandatory.

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

Guidance on the content and context for this Unit

This Unit is an optional Unit within the National Certificate in Screen Printing at SCQF level 5, but can also be taken as a freestanding Unit.

If this Unit is delivered as part of a Group Award, then it is recommended that centres consider an integrated delivery approach with other Units in the award.

This Unit aligns to the following National Occupational Standards from Proskills:

- ◆ Comply to Health and Safety in the Workplace
- ◆ Improve your performance at work
- ◆ Ensure your own actions, reduce risks to Health and Safety in the Workplace
- ◆ Improve individual and organisational performance
- ◆ Contribute to maintaining equipment in working order
- ◆ Prepare equipment

In this Unit the candidates are required to understand the screen printing process of multiple images on plastic substrate to enable them to complete a finished product. Throughout the delivery of this Unit, candidates will learn various aspects of multiple screen printing such as, screen printing by the development of their creative design concepts, computer pre-print operation and film output. The candidates will learn to structure their production time and increase printed output by printing multiple images on one sheet. Work planning is required, the understanding of equipment, materials and techniques in the production of multiple screen printing to a given brief.

The emphasis should be on acquiring knowledge and understanding of the purpose of this technique used in the screen printing industry, the principles of image types, film colour separations and stencil making suitable for the multiple screen printing process that can progress to a finished solution. The teacher/lecturer should encourage group discussion and review a range of basic designs and images used in this type of screen printing process to allow the candidate to make an informed design selection in response to the given brief.

Each candidate should be given the opportunity to develop and produce a final multiple screen print on plastic with skill and precision and accurate colour registration.

National Unit specification: support notes (cont)

Unit title: Screen Printing: Multiple Image Printing on Plastic Substrate (SCQF level 6)

Guidance on learning and teaching approaches for this Unit

The purpose of this Unit is to introduce the candidate to the procedure and techniques used in the screen printing of plastics substrates. Some of the applications used in this process help to increase printing volume as each colour has to be printed one at a time, therefore it would be beneficial to reduce running costs by producing multiple images on the one sheet of substrate to be cut on job completion. Colour separations must accurately register to each element on the sheet and good machine running registration is paramount for screen printing finishing procedures. Plastics are washable and do not weather easily, so the robustness of many products is excellent.

Small range of product examples:

- ◆ self adhesive white vinyl — window stickers, van signs, shop fronts, etc
- ◆ self adhesive clear vinyl — interior windows with print showing externally reverse screen printing
- ◆ self cling — this plastic is used, for example car tax disc holders and normally screen printed in reverse as above

Throughout this activity-based Unit, candidates should have the opportunity to learn and explore the various methods used in multi image screen print.

Design specification should define specific tasks to be met and be applicable to screen printing techniques.

For Outcome 1 the teacher/lecturer should encourage the candidate using practical exploration, formative investigation, oral questions, peer discussions and the review of practical work carried out.

The candidate should be encouraged to work independently exploring images, materials used and the different techniques within the screen printing process. The teacher/lecturer exposition of developmental skills in the multiple screen printing application techniques, should be complemented by individual and/or group research and discussion into the different styles and techniques used in the design and production of screen printing multiple images on one sheet. Further to this exploration the teacher/lecturer could arrange visits to a variety of different companies involved in the creative industries.

Learning approaches for Outcomes 2 and 3 should be activity based with the assessor demonstrating methods at appropriate stages, thereafter working individually, encouraging self-evaluation throughout the different tasks.

Design briefs should define specific tasks to be met and be applicable to the multiple screen printing process.

Candidates are encouraged to evaluate their finished solution to reinforce the focus and quality of their practical work.

National Unit specification: support notes (cont)

Unit title: Screen Printing: Multiple Image Printing on Plastic Substrate (SCQF level 6)

Guidance on approaches to assessment for this Unit

Candidates should be aware of assessment criteria and instruments. Centres may use the instruments of assessment, which are considered to be the most appropriate. Continuous assessment may be used to assist candidates in their work.

Examples of instruments of assessment that could be used:

Outcome 1— written/oral report

- ◆ Explain the purpose and applications of this technique in the screen printing industry with the emphasis on cost, materials and time.
- ◆ Explain the procedure for design assembly on pre-press software, film preparation, stencil making, print set up and application.

Outcomes 2 and 3 — Practical exercise (observation checklist) or product/photographic evidence

During the progression of this Unit, candidates will have several opportunities to develop their practical skills and should be assessed at appropriate points. Terminology should be presented in context throughout this Unit. Where the candidate is unsuccessful in achieving an Outcome, provision should be made for remediation and reassessment.

While it is recognised that there will be correlations between items of evidence, the nature and purpose of different Outcomes should be recognised and promoted.

Opportunities for the use of e-assessment

E-assessment may be appropriate for some assessments in this Unit. By e-assessment we mean assessment which is supported by Information and Communication Technology (ICT), such as e-testing or the use of e-portfolios or social software. Centres which wish to use e-assessment must ensure that the national standard is applied to all candidate evidence and that conditions of assessment as specified in the Evidence Requirements are met, regardless of the mode of gathering evidence. Further advice is available in *SQA Guidelines on Online Assessment for Further Education (AA1641, March 2003)*, *SQA Guidelines on e-assessment for Schools (BD2625, June 2005)*.

National Unit specification: support notes (cont)

Unit title: Screen Printing: Multiple Image Printing on Plastic Substrate (SCQF level 6)

Opportunities for developing Core Skills

There are also further opportunities to develop aspects of the following Core Skills:

<i>ICT</i> at SCQF level 5	Accessing Information
<i>Problem Solving</i> at SCQF level 5	Critical Thinking Planning and Organising Reviewing and Evaluating

Candidates may have opportunities to develop aspects of the Core Skill of *Problem Solving* through participation in the creative development process and in the critical evaluation of developing ideas before selecting final ideas and/or concepts for production and presentation.

Candidates may have opportunities to develop aspects of the Core Skill of *ICT* by participation in accessing design concepts and ideas before processing finished artwork. They can also use other aspects of computer software, for example word processing for report writing.

Disabled candidates and/or those with additional support needs

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

History of changes to Unit

Version	Description of change	Date
02	Core Skills Component Critical Thinking at SCQF level 5 embedded.	12/10/2011

© Scottish Qualifications Authority 2011

This publication may be reproduced in whole or in part for educational purposes provided that no profit is derived from reproduction and that, if reproduced in part, the source is acknowledged.

Additional copies of this Unit specification can be purchased from the Scottish Qualifications Authority. Please contact the Business Development and Customer Support team, telephone 0303 333 0330.