



## **National Unit specification: general information**

**Unit title:** Art and Design: Stained Glass Techniques (Copperfoil)  
(SCQF level 6)

**Unit code:** F9WR 12

**Superclass:** JR

**Publication date:** September 2010

**Source:** Scottish Qualifications Authority

**Version:** 01

## **Summary**

This Unit is designed to introduce candidates to the copperfoil method of joining glass in the manufacture of decorative glasswork.

The Unit allows candidates to gain knowledge and understanding in the use and care of materials, tools and equipment in the production of decorative glasswork enabling them to produce a stained glass panel in response to given specifications.

Candidates will also gain a working knowledge of relevant safety procedures and legislation.

This Unit is suitable for candidates who:

- ◆ wish to extend basic knowledge and skill in the use of stained glass techniques

## **Outcomes**

- 1 Describe the process of manufacture for copperfoiled stained glass panelling.
- 2 Prepare and produce cut stained glass to a given specification.
- 3 Produce a stained glass panel using the copperfoil technique to a given specification.

## **Recommended entry**

Whilst entry is at the discretion of the centre, candidates would benefit from having previous experience of an Art and Design Course or Units.

## **General information (cont)**

**Unit title:** Art and Design: Stained Glass Techniques (Copperfoil)  
(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**

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

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

## **National Unit specification: statement of standards**

**Unit title:** Art and Design: Stained Glass Techniques (Copperfoil)  
(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 the process of manufacture for copperfoiled stained glass panelling.

#### **Performance Criteria**

- (a) Identify and describe the materials used in copperfoiling glass.
- (b) Explain the function of the equipment used during the manufacture of copperfoiled glass panels.
- (c) Describe safe handling and materials storage requirements for the use of materials for
- (d) stained glass manufacture (copperfoiling).

### **Outcome 2**

Prepare and produce cut stained glass to a given specification.

#### **Performance Criteria**

- (a) Apply given cartoons to glass sheets.
- (b) Score the glass to given tolerances.
- (c) Describe safe handling and materials storage requirements for the use of materials for
- stained glass manufacture (copperfoiling).

### **Outcome 3**

Produce a stained glass panel using the copperfoil technique to a given specification.

#### **Performance Criteria**

- (a) Select and apply copperfoil to specified shapes of cut glass.
- (b) Combine the assorted glass shapes according to the specification.
- (c) Use soldering equipment and tools observing current relevant health and safety requirements throughout.
- (d) Clean and prepare the finished panel for subsequent finishing.

## **National Unit specification: statement of standards (cont)**

**Unit title:** Art and Design: Stained Glass Techniques (Copperfoil)  
(SCQF level 6)

### **Evidence Requirements for this Unit**

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

Written and/or oral evidence and product evidence will be produced to demonstrate that candidates have achieved all of the Outcomes and Performance Criteria.

Candidates will produce a folio of work, which includes:

- ◆ an accurate description of the materials, methods, storage and safety procedures used in the production of copperfoiled stained glass panelling.
- ◆ an accurate explanation of the function of equipment used during the manufacture of copperfoiled glass panels.
- ◆ accurate glass cutting and finishing skills for straight and curved shapes. Evidence will be recorded on an assessor observation checklist.
- ◆ a selection of stained glass cut shapes that have been prepared correctly for copperfoiling. Evidence will be recorded on an assessor observation checklist and used in the final production of a stained glass panel to a given specification.

The evidence must be produced under open-book conditions. All assessment evidence must be retained along with a copy of the assessor checklist.

## National Unit specification: support notes

**Unit title:** Art and Design: Stained Glass Techniques (Copperfoil)  
(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 of the National Certificate in Art and Design at SCQF level 6. It can also be taken as a free-standing Unit.

If this Unit is being delivered as part of a programme of art and design based Units, then it is recommended that centres consider an integrated delivery approach with other Units in the award.

The Unit is designed to offer candidates the opportunity to gain knowledge and skills relating to the construction processes and techniques used in the manufacture of decorative glasswork. The Unit deals with the copperfoil method of joining glass in the manufacture of decorative glasswork and is complemented by Units related to the art of stained glass making.

The skills are transferable within different working environments but the Unit is primarily aimed at candidates whose normal place of work would be a commercial studio or similar environment. The competencies and underpinning knowledge gained in successfully completing this Unit would be transferable across a range of related disciplines.

Current relevant health and safety legislation and regulations must be emphasised at all times due to the nature of the work involved.

The tools, equipment and materials required include:

- ◆ electricity supply
- ◆ soldering iron with a minimum wattage of 75 watts
- ◆ flux
- ◆ flux brush
- ◆ various rolls of copperfoil
- ◆ copperfoil sheet
- ◆ pattern shears
- ◆ cartoon
- ◆ automatic foiling machine
- ◆ copperfoil dispenser
- ◆ skill knife
- ◆ scissors
- ◆ fid
- ◆ glass cutter edge preparation machine
- ◆ sal ammoniac tinning block
- ◆ light table

## National Unit specification: support notes (cont)

**Unit title:** Art and Design: Stained Glass Techniques (Copperfoil)  
(SCQF level 6)

- ◆ de-soldering wick/syringe
- ◆ pinboard
- ◆ pins
- ◆ china-graph pencils
- ◆ patina
- ◆ glass breaking pliers
- ◆ cut-running pliers
- ◆ hand foiler
- ◆ hand crimper
- ◆ iron stand with sponge tray

Safety materials/tools and equipment required: eye protection, apron, gloves.

### Guidance on learning and teaching approaches for this Unit

Teachers/lecturers should use demonstrations of working methods and approaches, exemplars of copperfoiled panels and class discussion to assist candidates' understanding of the subject. It may also be useful to consider the use of industrial visits to reinforce working practices and methods. These approaches can be used to provide a stimulating visual launch to this Unit.

Teachers/lecturers should issue clear specifications and explain each process, demonstrating the practical elements step by step until the candidates feel confident enough to attempt them on their own. Teachers/lecturers should supervise the practical exercises carried out by candidates and safety factors should be emphasised throughout the delivery of the Unit due to the hazardous nature of the work involved.

Terminology should be presented in context throughout the Unit and exemplar material could be made available to enable candidates to understand the standards required.

### Opportunities for developing Core Skills

Candidates may have opportunities to develop aspects of the Core Skill of *Problem Solving* through the developmental and production processes and aspects of the Core Skill of *Communication* during ongoing discussions and preparation for tutorial sessions and in the descriptions of materials equipment and techniques.

Candidates may also have opportunities to develop aspects of the Core Skill of *Numeracy* during the preparation and cutting of glass to given tolerances and in the development of ongoing practical work.

## **National Unit specification: support notes (cont)**

**Unit title:** Art and Design: Stained Glass Techniques (Copperfoil)  
(SCQF level 6)

### **Guidance on approaches to assessment for this Unit**

A suitable instrument of assessment for this Unit would be a practical exercise(s).

Candidates should be aware of all assessment requirements and arrangements. Continuous assessment in the form of candidate/teacher/lecturer reviews may be used to assist candidates in the progression of their work.

Although assessment may be ongoing teachers/lecturers should assist candidates to prepare for the final assessment by advising and guiding them in the selection and presentation of the work to be assessed.

Candidates should demonstrate the ability to select and use materials, equipment and processes and develop the skills required to produce effective copperfoil work.

Assessment evidence can be gathered and linked with other mandatory and/or optional Units for centres delivering the National Certificate in Art and Design at SCQF level 6.

Teachers/lecturers must be satisfied that the evidence submitted is the work of individual candidates. Although group work may be used as learning and teaching approach, any work that contributes to a candidate's assessment evidence must be carried out on an individual basis to ensure authenticity.

### **Opportunities for the use of e-assessment**

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

### **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](http://www.sqa.org.uk/assessmentarrangements)

## History of changes to Unit

Version	Description of change	Date

© Scottish Qualifications Authority 2010

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 Customer Contact Centre, telephone 0845 279 1000.