

Higher National Unit specification

General information for centres

Unit title: Painting and Firing Stained Glass Panels

Unit code: F1RP 34

Unit purpose: This Unit is designed to provide candidates with the skills and knowledge required to paint and fire stained glass panels. It is suitable for those studying decorative glass work or working in the glass industry.

On completion of the Unit the candidate should be able to:

- 1 Select tools and materials for glass painting.
- 2 Mix and apply glass paint, stains and mediums.
- 3 Prepare kiln and fire a decorated glass panel.

Credit points and level: 2 HN credits at SCQF level 7: (16 SCQF credit points at SCQF level 7*)

**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.*

Recommended prior knowledge and skills: While access to this Unit is at the discretion of the centre, it would be beneficial if candidates had prior knowledge of glasswork, for example a NQ course in Decorative Glasswork at SCQF level 5 or 6.

Core Skills: There are opportunities to develop the Core Skills of Problem Solving, Working with Others and Numeracy at SCQF level 5 in this Unit, although there is no automatic certification of Core Skills or Core Skills components.

Context for delivery: If this Unit is delivered as part of a Group Award, it is recommended that it should be taught and assessed within the subject area of the Group Award to which it contributes.

Assessment: This Unit lends itself to holistic assessment. Evidence should be generated in a studio environment. Candidates should be given a brief which requires them to produce a painted and stained glass panel.

The practical assessment should be supported by written/oral responses to ten short answer questions.

Higher National Unit specification: statement of standards

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The sections of the Unit stating the Outcomes, Knowledge and/or Skills, and Evidence Requirements are mandatory.

Outcome 1

Select tools and materials for glass painting

Knowledge and/or Skills

- ◆ Tools
- ◆ Brushes
- ◆ Paints and stains
- ◆ Mediums

Evidence Requirements

Candidates will need to provide evidence to demonstrate their knowledge and/or skills by showing that they can select appropriate materials and tools for a given task. The selection should include:

- ◆ three different types of paint or stain
- ◆ three different types of medium
- ◆ three different types of brushes
- ◆ two different tools to use with mediums

Candidate performance should be recorded on an observation schedule. Additionally, candidates should be asked two questions about choice of materials.

Assessment Guidelines

The assessment of this Outcome can be combined with Outcomes 2 and 3, details of which are given under Outcome 3 below.

Higher National Unit specification: statement of standards (cont)

Unit title: Painting and Firing Stained Glass Panels

Outcome 2

Mix and apply glass paint, stains and mediums

Knowledge and/or Skills

- ◆ Importance of cleanliness
- ◆ Proportions of ingredients
- ◆ Mixing techniques
- ◆ Application techniques
- ◆ Blending techniques
- ◆ Health and safety requirements

Evidence Requirements

Candidates will need to provide evidence to demonstrate their knowledge and/or skills by showing that they can, with reference to a given task and using the tools and materials selected in Outcome 1:

- ◆ apply paints, stains and mediums using correct techniques
- ◆ demonstrate the importance of cleanliness when using painting techniques
- ◆ use mixing techniques to achieve even colour distribution
- ◆ demonstrate use of appropriate ingredients in the correct proportions
- ◆ follow manufacturers' instructions in the application of techniques
- ◆ use blending techniques to achieve the desired effect
- ◆ adhere to health and safety requirements in the workshop

Evidence of candidate performance in the application of techniques used should be recorded in an observation schedule.

In addition candidates should be asked two questions about application techniques. Both questions should be answered in a way which accurately outlines the techniques used.

Assessment Guidelines

The assessment of this Outcome can be combined with Outcomes 1 and 3, details of which are given under Outcome 3 below.

Higher National Unit specification: statement of standards (cont)

Unit title: Painting and Firing Stained Glass Panels

Outcome 3

Prepare kiln and fire a decorated glass panel

Knowledge and/or Skills

- ◆ Kiln preparation
- ◆ Kiln cleaning techniques
- ◆ Kiln programming techniques

Evidence Requirements

Candidates will need to provide evidence to demonstrate their knowledge and/or skills by showing that they can, with reference to a given task, prepare a kiln and fire a decorated glass panel to a commercially acceptable standard. An observation schedule should record the candidate:

- ◆ correctly following the cleaning and preparation processes for kilns
- ◆ correctly following relevant health and safety requirements throughout
- ◆ selecting kiln shelves suitable for the specific task
- ◆ removing old batt wash to base material
- ◆ selecting appropriate shelf primer for the task given
- ◆ applying batt wash as recommended by the manufacturers' instructions
- ◆ using appropriate tools for each task
- ◆ working in a safe manner
- ◆ using kiln programming techniques correctly
- ◆ producing correct firing schedules
- ◆ firing the kiln
- ◆ successfully firing the panel

Six questions should be asked of the candidates to ensure their knowledge of all processes undertaken is tested — two should be about kiln preparation, two should be about health and safety precautions and two should be about evaluating the quality of the panel. All questions should be answered correctly.

Assessment Guidelines

It is envisaged that this Unit would be assessed holistically in a studio environment. Candidates could be given a brief asking them to produce a painted and stained glass panel. This could involve the candidate in selecting appropriate materials and tools (Outcome 1); mixing and applying glass paint, stains and mediums (Outcome 2); preparing equipment and producing the artefact (Outcome 3) to meet the brief, ensuring that health and safety procedures are followed throughout. Health and safety and production processes could be recorded in an Observation Schedule. The questions — 10 in total could be asked at the end of the Unit to encourage overall evaluation of the processes and techniques involved.

Administrative Information

Unit code: F1RP 34

Unit title: Painting and Firing Stained Glass Panels

Superclass category: JR

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Version	Description of change	Date

Source: SQA

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Higher National Unit specification: support notes

Unit title: Painting and Firing Stained Glass Panels

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 80 hours.

Guidance on the content and context for this Unit

This Unit is an optional Unit in the HNC/HND Art Glass Production Group Awards frameworks. Its purpose is to introduce candidates to glass painting and firing techniques using a variety of materials, tools and equipment.

The kind of equipment which will be used in this Unit will include different types of brushes, tracers, badger scrubs and palette knives. Candidates will also have to work with kilns. Candidates should also use different types of paints and stains. The importance of cleanliness and tidiness in the work area should be stressed throughout the Unit.

Candidates should be encouraged not only to follow health and safety requirements in the workplace but to research any specific manufacturer's instructions supplied with equipment. Manufacturers' catalogues and websites could be used as a source of reference for materials and equipment.

Guidance on the delivery and assessment of this Unit

Tutors should demonstrate techniques and then allow candidates to practise their skills. Visits, for example to museums and exhibitions, could add to the learning experience. Candidates will need to practise their techniques, prior to assessment, until they have achieved a level of competence where they can produce a painted glass panel using a variety of materials. This could be done by getting candidates to produce small panels or parts of panels.

It is envisaged that this Unit will be assessed holistically, in a studio environment, by:

- ◆ A practical assessment in manufacturing a painted and stained glass panel. This could be a centre-devised task or it could be in response to a client brief.
- ◆ A written/oral assessment of 10 short answer questions.

Opportunities for developing Core Skills

Candidates can develop their problem solving skills by determining the materials, tools and equipment which should be used to meet the specification given. This would be developed throughout the Unit by presenting candidates with mini-briefs to work to so that they make decisions, plan their work and organise the resources needed to carry out tasks. This would also involve candidates working with others to negotiate the use of equipment at certain times. Using observation schedules the candidates will be evaluated on what they have done and in particular when things don't work out and there are flaws, how they can amend these flaws and minimise wastage. Candidates will also have to evaluate their work by responding to questions.

Numeracy skills will be developed as candidates will have to work out firing schedules and quantities of materials involved in making the panel.

Higher National Unit specification: support notes (cont)

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Open learning

This Unit is not suitable for Open learning due to the equipment used. It also requires candidates to be observed and questioned by a qualified practitioner to meet health and safety requirements.

For further information and advice, please refer to the SQA guide *Assessment and Quality Assurance for Open and Distance Learning* www.sqa.org.uk.

Candidates with disabilities and/or additional support needs

The additional support needs of individual candidates should be taken into account when planning learning experiences, selecting assessment instruments, or considering alternative Outcomes for Units. Further advice can be found in the SQA document *Guidance on Assessment Arrangements for Candidates with Disabilities and/or Additional Support Needs* (www.sqa.org.uk).

General information for candidates

Unit title: Painting and Firing Stained Glass Panels

In this Unit you will learn how to paint on to glass using traditional paints and stainers. You will learn how to mix paints with mediums — this is just water or vinegar that is mixed with the powder paint to form a paste that is applied to the glass. You will also learn how to apply stain to your panel — this just colours it. This means that you will have to think about health and safety issues in the workplace as well as learn how to use the equipment.

Outcome 1 looks at the tools and materials used in glass painting.

Outcome 2 covers the mixing and application of glass paint, stains and mediums.

In Outcome 3 you will prepare a kiln and fire a decorated glass panel.

You will practise making different types of panels and mediums — these could include lettering, traditional or modern designs.

Assessment will take place in a studio environment where you will be asked to carry out practical activities supported by written/oral questions. You will be assessed by your tutor who will observe and record some of the things that you are asked to do. For example in Outcome 2 you will be required to mix and apply glass paint, stains and mediums following all safety regulations. Other assessments are related to the things you will make and how you conduct yourself throughout the Unit.

You will be given the opportunity to develop your Core Skills in this Unit. At times you will be required to consult with your colleagues to work out a rota for use of the equipment, tools etc and this means you will develop your skills of Working with Others. Additionally you will develop your Problem Solving skills by planning, developing and evaluating what you do. Not all processes will work out exactly the way you planned them and you may need to experiment or correct errors as you work. You will also develop your numeracy skills as you will have to work out firing schedules for the kiln.