



Higher National Unit specification

General information for centres

Unit title: Art Glass: Glue Chipping of Glass

Unit code: F1WY 34

Unit purpose: This Unit is designed to enable the candidate to develop the skills and knowledge related to the setting up of equipment used for melting glue and the techniques of glue chipping designs onto glass. It will also allow candidates to identify types of glue which may be used. It is suitable for candidates studying glass or working in the glasswork industry.

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

- 1 Set up a glue melting pot and prepare glue for melting.
- 2 Produce a glue chip design on glass.

Credit points and level: 1 HN credit at SCQF level 7: (8 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: Although entry is at the discretion of the centre, candidates should have previously achieved Units which involve glass cutting at SCQF level 5/6 and F1RW 34 *Glass: Sandblasting*.

Core Skills: There are opportunities to develop the Core Skills of Problem Solving and Working with Others at SCQF level 5, 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 will be assessed through practical tasks with accompanying designs in which the candidate must produce three glass pieces with a glue chipped design on the surface.

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.

Where evidence for Outcomes is assessed on a sample basis, the whole of the content listed in the Knowledge and/or Skills section must be taught and available for assessment. Candidates should not know in advance the items on which they will be assessed and different items should be sampled on each assessment occasion.

Outcome 1

Set up a glue melting pot and prepare glue for melting

Knowledge and/or Skills

- ◆ Types of pots
- ◆ Use of thermometer
- ◆ Types of glue
- ◆ Glue preparation
- ◆ Glue melting
- ◆ Optimum working temperature
- ◆ Glue to water ratio

Evidence Requirements

Candidates will need to provide evidence to demonstrate their Knowledge and Skills by showing that they can:

- ◆ set up and operate a glue melting pot which will safely melt the glue to the required temperature within a range of 2 degrees above or below that required
- ◆ prepare glue for melting using the correct glue to water ratio (1:2) by weight
- ◆ select the correct type of glue and ensure the soak time is correct for the given task

Assessment Guidelines

See Assessment Guidelines after Outcome 2.

Higher National Unit specification: statement of standards (cont)

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Outcome 2

Produce a glue chip design on glass

Knowledge and/or Skills

- ◆ Design techniques
- ◆ Sketching techniques
- ◆ Types of masking material suitable for glue chipping
- ◆ Sandblasting techniques
- ◆ Working temperature of glue
- ◆ The effects of humidity
- ◆ Health and safety

Evidence Requirements

Candidates will need to provide evidence to demonstrate their Knowledge and Skills by showing that they can produce three different glue chipped designs on glass to meet a given brief. Each design should be suitable for the brief, should be to scale and should incorporate glue chip as part of the overall design. Each design should be accompanied by technical notes on colours, techniques, size and scale of the artefacts and glue temperature.

The candidate should produce three glue chipped artefacts which show accurate use of masking materials, correct use of sandblasting techniques with glue chips securely attached to glass. Candidate performance should be recorded on an observation schedule which should include evidence of the candidate testing glue temperature and taking account of the effects of humidity. Additionally evidence of the candidate following health and safety requirements should be recorded on the observation schedule. The glue melting process is completed safely without injury to candidate or others. PPE, eye protection and footwear must be used during the glue melting and chipping process.

Assessment Guidelines

The candidates' designs may be hand drawn or computer generated and cut with the use of a plotter cutter. The artefacts could have a thematic approach. The candidate could be asked to produce three different glass artefacts, each demonstrating the use of the glue chipping process. The candidate should demonstrate their ability to maintain safe working practices throughout. This may be achieved by the completion of a pre printed checklist which should be completed by the tutor supervising the practical work.

Administrative Information

Unit code: F1WY 34
Unit title: Art Glass: Glue Chipping of Glass
Superclass category: JR
Original date of publication: August 2007
Version: 01

History of changes:

Version	Description of change	Date

Source: SQA

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Higher National Unit specification: support notes

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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 in the HNC/HND Art Glass Production Group Awards frameworks.

The type of glue melting pots may be electric or gas powered. The glue pots may be double skinned or single skinned. It is recommended that animal glue should be used for the chipping process. Masking materials that could be used are Masking tape, vinyl or acid resist tape. Designs to be chipped may be hand drawn or computer generated and may be hand cut or computer cut. Ideally candidates should have the opportunity to use all of these techniques during the course of the Unit.

Current legislation on Health and Safety should be taught. At the time of printing this is:

- ◆ Health and Safety at Work Act (HASWA)
- ◆ Control of Substances Hazardous to Health (COSHH)
- ◆ Personal Protective Equipment (PPE)

Candidates should be encouraged to research current information on the internet.

Guidance on the delivery and assessment of this Unit

Outcome 1

Tutor demonstration of the correct set up procedures for a glue melting pot which will include double and single skinned pots and highlight the need for the pot to be level. Candidates should be guided by the tutor on the correct glue to water ratio by weight (1:2) soak times (2-3 hours) and optimum glue temperature 60 degrees centigrade (+/- 2).

Outcome 2

Glue chipped glass artefacts should be designed and made by the candidate. The techniques used should first be demonstrated by the tutor and candidates should be given sufficient opportunity to practise their techniques before being assessed. Relevant health and safety legislation such as currently HASWA, COSHH and PPE should be explained to the candidate by the tutor and candidates should be encouraged to ensure that the current workshop practices are up to date.

Learning and teaching materials should be accessible and where applicable positively promote equality and cultural diversity.

Higher National Unit specification: support notes (cont)

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Opportunities for developing Core Skills

The Core Skill of Problem Solving is developed in this Unit as the candidate will have to develop designs, determine material requirements and temperatures required to produce the chipped items. Candidates will be expected to plan the production of the three artefacts and will be expected to organise the materials and equipment needed to produce the glass items. Additionally candidates are expected to evaluate the quality of the items as the production process progresses.

Candidates working in the workshop environment will be required to work closely with others. They will have to negotiate the use of equipment and machinery and to time the processes to match with the needs of others. Additionally health and safety requirements mean that due care and attention has to be paid to others in the workshop environment. Candidates will also negotiate the suitability of their proposed designs with their tutor.

Open learning

This Unit is not suitable for Open Learning due to the equipment and workshop health and safety requirements inherent in the process.

For further information and advice, please refer to the SQA document *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

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This Unit is designed to give you knowledge and skills to produce glue chipped designs on glass.

Throughout the Unit you will pay due care and attention to any health and safety requirements relevant to the processes and this will be assessed as part of Outcome 2.

For Outcome 1 you will learn to set up and safely operate a glue melting pot and you will learn about the types of glue suitable for the chipping of glass, the glue to water ratio required as well as working temperatures of the glue and the effects that humidity has on the chipping process.

For Outcome 2 you will produce three glue chipped designs on glass which may then be used within future work such as gilding or as standalone artefacts.

In undertaking this Unit you will develop the Core Skills of Problem Solving and Working with Others.