



Higher National Unit specification

General information for centres

Unit title: Glass Moulding and Forming: An Introduction

Unit code: F1WP 34

Unit purpose: This Unit is designed to enable the candidate to develop skills and knowledge related to moulding and forming. It is suitable for candidates wishing to advance to a higher level of study or work in the hot glass field of Glass Art.

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

- 1 Select and prepare mould variants.
- 2 Design and manufacture moulds.

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: Access to this Unit is at the discretion of the centre. It would be beneficial if candidates had achieved the HN Unit F1X6 33 *Kiln Preparation*.

Core Skills: There are opportunities to develop the Core Skill of Problem Solving 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: Outcome 1 could be carried out by short answer questions or a report of no less than 500 words, as well as performance evidence of competence under studio working conditions. Candidates should record all technical data relating to processes and procedures used throughout the Unit. Outcome 2 could be a practical based assessment using assessment checklists under supervised conditions. Health and Safety protocol should be ongoing and recorded in a centre devised checklist for each Outcome.

Higher National Unit specification: statement of standards

Unit title: Glass Moulding and Forming: An Introduction

Unit code: F1WP 34

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

Select and prepare mould variants

Knowledge and/or Skills

- ◆ Moulds and materials
- ◆ Draping and slumping moulds
- ◆ Preparation procedures
- ◆ Health and Safety requirements

Evidence Requirements

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

- ◆ identify mould materials
- ◆ select moulds
- ◆ prepare moulds
- ◆ comply with Health and Safety requirements

The candidate should select two dissimilar types of moulds and correctly prepare them for kiln work using two different methods of applying kiln wash. The finished articles should be devoid of streaks and runs.

Health and Safety procedures should be monitored throughout the Unit.

Assessment Guidelines

Part of the assessment could be carried out by short answer questions or a report of no less than 500 words relating to types of mould, mould materials, mould characteristics and preparation.

Alternatively, the assessments could be conducted orally where the candidates' responses could be recorded and noted on a detailed centre checklist.

Higher National Unit specification: statement of standards (cont)

Unit title: Glass Moulding and Forming: An Introduction

Outcome 2

Design and manufacture moulds

Knowledge and/or Skills

- ◆ Male and Female moulds
- ◆ Safety requirements

Evidence Requirements

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

- ◆ design moulds
- ◆ manufacture moulds
- ◆ work in a safe manner

The candidate should design and manufacture a slumping mould and a draping mould. Each mould should be made from a different material. The finished moulds should be devoid of abnormal protuberances, breaks, fissures and be cavity free.

Health and Safety procedures should be monitored throughout the Unit.

Assessment Guidelines

The Candidate could be offered a range of mould materials to include gelflex and wet felt. Health and Safety procedures should be monitored throughout the Unit where a centre devised safety checklist could be provided. A centre devised checklist could be provided for the practical element of the Outcome.

Administrative Information

Unit code: F1WP 34

Unit title: Glass Moulding and Forming: An Introduction

Superclass category: WF

Original date of publication: August 2007

Version: 01

History of changes:

Version	Description of change	Date

Source: SQA

© Scottish Qualifications Authority 2007

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.

SQA acknowledges the valuable contribution that Scotland's colleges have made to the development of Higher National qualifications.

Additional copies of this Unit specification can be purchased from the Scottish Qualifications Authority. Please contact the Customer Contact Centre for further details, telephone 0845 279 1000.

Higher National Unit specification: support notes

Unit title: Glass Moulding and Forming: An Introduction

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. Its purpose is to introduce candidates to the various types of moulds, mould characteristics, mould materials and relative preparation procedures.

The kind of equipment which will be used in this Unit would include different types of moulds and makes of moulds and mould preparation procedures. The candidates should use different types of mould materials to produce draping and slumping moulds. Manufacturers' catalogues and periodicals could complement discussions on tools and equipment. The world wide web could be inspirational in the candidates' research.

Candidates should be encouraged not only to follow Health and Safety requirements in the workplace but to research any specific manufacturers' instructions supplied with equipment and material. The internet could be used as a source of reference for materials and equipment.

Guidance on the delivery and assessment of this Unit

This Unit is likely to be a stand alone Unit. It is likely to be delivered as an optional Unit in the HNC or in the first year of an HND.

Each Outcome should be assessed individually and should be recorded on a centre-devised checklist. Oral and written questions could be used to supplement the practical elements of the Unit. Alternatively the candidates' could compile a report inclusive of all Outcomes. Candidates should be encouraged to maintain a log book throughout their workshop activities.

This Unit could be delivered alongside any other Unit where hot glass processes are used, for example F1X6 33 *Kiln Preparation* and/or F1X7 33 *Glass Fusing: An Introduction*. Mini projects could be given to candidates building up their skills at preparing moulds and ancillary equipment.

Opportunities for developing Core Skills

Candidates could 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 use of moulds, mould materials, tools and equipment. Candidates could develop analytical skills by disseminating data recorded from their trials.

Higher National Unit specification: support notes (cont)

Unit title: Glass Moulding and Forming: An Introduction

Open learning

This Unit is not suitable for Open learning due to the equipment used 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

Unit title: Glass Moulding and Forming: An Introduction

In this Unit you will learn how to select and prepare moulds correctly. You will work on your own and at times with your colleagues and tutor.

You will be expected to show evidence of data gathering and the ability to think for yourself. Each objective requires that you maintain a workbook to record details of what you did and the results from the functions you carried out. The sharing of information is helpful and you should exchange data with your colleagues where appropriate.

You will be expected to work safely with potentially hazardous materials, so Health and Safety issues are important in this Unit.

You will learn about health and safety procedures which have to be followed in the workshop for your own protection and the protection of your colleagues. You should observe all HASWA regulations and conform to COSHH codes of practice throughout this Unit and you will be observed by your tutor to make sure that you do follow accepted procedures.