



Higher National Unit specification

General information for centres

Unit title: Jewellery: Flush Setting Techniques

Unit code: F3XL 35

Unit purpose: This Unit enables candidates to develop the underpinning knowledge and practical skills required to flush set round brilliant cut gemstones into sheet metal. Candidates will be taken progressively from simple single stone operations on flat sheet, to multiple operations of gemstones in shaped and contoured metal.

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

- 1 Prepare tools for flush setting.
- 2 Perform flush setting techniques.

Credit points and level: 1 HN credit at SCQF level 8: (8 SCQF credit points at SCQF level 8*)

**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: Entry to this Unit is at the discretion of the centre. Candidates would benefit from having undertaken HN Units *Jewellery: Rub-over Setting Techniques* and *Jewellery: Claw Setting Techniques*.

Core Skills: There are opportunities to develop the Core Skills of *Problem Solving* at SCQF level 6, *Working with Others* at SCQF level 5 and the Using Number component of *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: Outcome 1 will be assessed by product evidence. Outcome 2 could be assessed by the use of checklists.

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

Prepare tools for flush setting

Knowledge and/or Skills

- ◆ Burrs
- ◆ Gravers
- ◆ Burnishers
- ◆ Measuring tools
- ◆ Sharpening techniques

Evidence Requirements

Candidates will need to provide evidence to demonstrate their Knowledge and/or Skills by showing that they can select and prepare tools and materials in a manner suitable to undertake the flush setting process. Candidates must be able to do the following:

- ◆ select burrs appropriate for flush setting of specific stones
- ◆ select gravers appropriate for flush setting of specific stones
- ◆ maintain finish on burnishers
- ◆ use measuring tools correctly for burrs and gemstones
- ◆ maintain and sharpen tools when required using appropriate sharpening techniques

This Outcome is integrated with Outcome 2 in that candidates will use the tools and materials prepared in this Outcome to undertake the flush setting of gemstones in Outcome 2.

Assessment Guidelines

It is recommended that assessment takes the form of a series of practical exercises during the course of the Unit, rather than at a single event. Observation checklists could be used.

Higher National Unit specification: statement of standards (cont)

Unit title: Jewellery: Flush Setting Techniques

Outcome 2

Perform flush setting techniques

Knowledge and/or Skills

- ◆ Drilling
- ◆ Burring
- ◆ Burnishing

Evidence Requirements

Candidates will need to provide evidence to demonstrate their Knowledge and/or Skills by showing that they can perform the techniques required to carry out flush setting on sheet metal. Candidates must provide product evidence to demonstrate that they can:

- ◆ drill pilot holes for stone location. Pilot holes must all be drilled in the exact position and in relation to the planned arrangement. Drilling must be carried out in a controlled manner, which avoids overheating and blunting of the drill.
- ◆ burr holes for a round faceted gemstone. Burr holes must be in the exact position in relation to the pilot holes. Burring must be carried out in a controlled manner, which avoids overheating and blunting of the burr.
- ◆ use gravers to correctly shape a burr hole to suit a shaped gemstone.
- ◆ apply burnishing techniques to the gemstone being set. No damage should occur to the gemstone and it must be secure at the end of the process.

Assessment Guidelines

It is recommended that assessment takes the form of a series of practical exercises during the course of the Unit, rather than at a single event. Observation checklists could be used.

Administrative Information

Unit code: F3XL 35

Unit title: Jewellery: Flush Setting Techniques

Superclass category: JH

Original date of publication: August 2008

Version: 01

History of changes:

Version	Description of change	Date

Source: SQA

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Higher National Unit specification: support notes

Unit title: Jewellery: Flush Setting Techniques

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 has been written in order to allow candidates to develop skills in the manufacture of jewellery and the setting of small faceted gemstones using the ‘flush’ method of stone setting.

It is anticipated that candidates will gain experience in flush setting of round and square faceted gemstones in flat and shaped sheet metal.

Guidance on the delivery and assessment of this Unit

It is anticipated that the lecturer will provide a range of short demonstrations and exercises allowing the candidate to gain experience in setting a range of gemstones using the flush setting technique.

It is recommended that candidates initially undertake formative work using single round faceted stones in flat sheet metal. This would allow them to gain some experience with the basic techniques before graduating on to more complex work using shaped metal and other gemstone shapes.

Although the assessment for this Unit is likely to be provided in the form of completed exercises it would be beneficial for candidates to apply this highly decorative technique to projects undertaken in other areas of the Group Award.

Opportunities for developing Core Skills

There are opportunities to develop the Core Skills of *Problem Solving* at SCQF level 6, *Working with Others* at SCQF level 5 and the Using Number component of *Numeracy* at SCQF level 5 in this Unit, although there is no automatic certification of Core Skills or Core Skills components.

Candidates will be required to analyse and seek solutions to a range of practical issues involved in the flush setting of gemstones. They will also be required to overcome problems associated with the precision aspects of the flush setting technique. This will provide candidates with opportunities to develop *Problem Solving* at SCQF level 6.

The Using Number component of *Numeracy* may be developed at SCQF level 5 if candidates calculate various dimensions of gemstones in the early stages of the planning process. This would involve accurate measurements and calculations based on diameter and circumference.

Working with Others may be developed at SCQF level 5, as candidates will have to negotiate with their peers as to the use of shared resources in the workshop environment.

Higher National Unit specification: support notes (cont)

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Open learning

This Unit could be delivered by distance learning. However, it would require planning by the centre ensure the sufficiency and authenticity of candidate evidence. Completion of this Unit would also require access to specialised tools and materials.

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: Jewellery: Flush Setting Techniques

This Unit will enable you to develop the underpinning knowledge and practical skills required to flush set round brilliant cut gemstones into sheet metal. You will be taken progressively from simple single stone operations on flat sheet, to multiple operations of gemstones in shaped and contoured metal.

On completion of the Unit you should be able to:

- 1 Prepare tools for flush setting.
- 2 Perform flush setting techniques.

In Outcome 1 you will learn how to prepare and maintain the range of specialist bench tools required to perform the flush setting process.

In Outcome 2 you will perform flush setting techniques using shaped faceted gemstones. It is likely that you will be introduced to flush setting by using simple round faceted gemstones in flat sheet metal, before proceeding on to the more advanced techniques on contoured surfaces.

Your lecturer may provide short demonstrations and exercises allowing you to gain experience of how flush setting techniques are used to set a range of gemstones.

The highly decorative techniques which you will learn are transferable and applicable to other projects.

There are opportunities to develop the Core Skills of *Problem Solving* at SCQF level 6, *Working with Others* at SCQF level 5 and the Using Number component of *Numeracy* in this Unit.