



## Higher National Unit specification

### General information for centres

**Unit title:** Jewellery: Channel Setting Techniques

**Unit code:** F3X5 35

**Unit purpose:** This Unit is designed to enable candidates to develop the underpinning knowledge and practical skills required to channel set round and square faceted gemstones into jewellery items. Candidates will be taken progressively from initial simple techniques to advanced techniques involving multiple gemstones. On completion of the Unit the candidate should be able to:

- 1 Prepare tools suitable for channel setting.
- 2 Perform the channel setting technique.

**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 and *Working with Others* 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**

**Unit title:** Jewellery: Channel Setting Techniques

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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 suitable for channel setting

#### **Knowledge and/or Skills**

- ◆ Gravers
- ◆ Burrs
- ◆ 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 channel setting. Candidates must be able to do the following:

- ◆ select burrs appropriate for channel setting of specific stones
- ◆ select gravers appropriate for channel setting of specific stones
- ◆ use measuring tools correctly for burrs and gemstones
- ◆ maintain and sharpen tools when required

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

#### **Assessment Guidelines**

The assessment will probably not be completed at a single event, with the instrument taking the form of an observation checklist, completed over the series of practical exercises during the course of the Unit.

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

**Unit title:** Jewellery: Channel Setting Techniques

### **Outcome 2**

Perform the channel setting technique

#### **Knowledge and/or Skills**

- ◆ Drilling
- ◆ Burring
- ◆ Undercutting
- ◆ Burnishing

#### **Evidence Requirements**

Candidates will need to provide evidence to demonstrate their Knowledge and/or Skills by showing that they can perform the channel setting technique for linear arrangements of round faceted and square faceted stones. 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.
- ◆ undercut the metal where required. This must be appropriate to the shape of the gemstones being set.
- ◆ use gravers to correctly shape a burr hole to suit a shaped gemstone.
- ◆ apply burnishing techniques to the gemstones being set. No damage should occur to the gemstones, which must be secure at the end of the process.

#### **Assessment Guidelines**

The assessment will probably not be completed at a single event, with the instrument taking the form of an observation checklist, completed over the series of practical exercises during the course of the Unit.

## Administrative Information

**Unit code:** F3X5 35

**Unit title:** Jewellery: Channel 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: Channel 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 'Channel' method of stone setting.

It is anticipated that the candidate will gain experience in channel setting various gemstones. This will include:

- ◆ round faceted: multiple stone channel setting in a linear arrangement
- ◆ square faceted: multiple stone channel setting in a linear arrangement

It is expected that projects will be a combination of pre-cast mounts and finished hand fabricated items.

### 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 candidates to gain experience in setting a range of gemstones using the channel setting technique.

It is recommended that candidates initially undertake formative work using small numbers of larger stones, allowing them to gain some experience with the basic techniques, before graduating on to more complex work using smaller stones in linear arrangements

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 project work 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 and *Working with Others* 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 channel setting of gemstones. They will also be required to overcome problems associated with the precision aspects of the channel 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.

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

### **Unit title:** Jewellery: Channel Setting Techniques

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.

### **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 need**

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](http://www.sqa.org.uk)).

## General Information for Candidates

### Unit title: Jewellery: Channel Setting Techniques

This Unit is designed to enable you to develop the underpinning knowledge and practical skills required to channel set round and square faceted gemstones into jewellery items. You will be taken progressively from initial simple techniques to advanced techniques involving multiple gemstones.

In Outcome 1 you will learn about the various gravers and burrs used to perform the channel setting procedure.

In Outcome 2 you will learn how to channel set multiple small brilliant cut gemstones into linear arrangements. You will then proceed to perform more challenging setting operations using multiple square faceted stones.

Some of the work you will undertake will be simply to channel set stones into pre-cast mounts. Other tasks will require you to cut a channel into solid metal before setting the gemstones into the channel.

There are opportunities to develop the Core Skills of *Problem Solving* at SCQF level 6 and *Working with Others* 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.