



Higher National Unit specification

General information for centres

Unit title: Jewellery: Pave Setting Techniques

Unit code: F3Y8 35

Unit purpose: This Unit is designed to enable candidates to develop the underpinning knowledge and practical skills required to pave set round brilliant cut gemstones into sheet metal. Candidates will be taken progressively from simple single stone operations, to multiple operations of gemstones in linear and group arrangements.

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

- 1 Plan arrangements of gemstones suitable for pave setting.
- 2 Prepare for pave setting.
- 3 Perform pave 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 component *Using Number* 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 assessed through portfolio evidence and Outcome 2 could be assessed by means of a checklist. Outcome 3 will be assessed through product evidence.

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

Plan arrangements of gemstones

Knowledge and/or Skills

- ◆ Suitable arrangements
- ◆ Placement of beads
- ◆ Metal thickness

Evidence Requirements

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

- ◆ plan the arrangement of gemstones. These must be practical and usable for pave setting of a single stone and multiple stones. The plan must show the position of the beads in relation to the arrangement of the stones.
- ◆ explain the importance of metal thickness for the chosen gemstones. The size of the gemstones must be appropriate to the thickness of the metal.

Assessment Guidelines

Candidates could present evidence in the form of a portfolio of usable design arrangements.

Outcome 2

Prepare for pave setting

Knowledge and/or Skills

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

Higher National Unit specification: statement of standards (cont)

Unit title: Jewellery: Pave Setting 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 pave setting process. Candidates must be able to do the following:

- ◆ select gravers appropriate for the pave setting of specific stones
- ◆ select burrs appropriate for the pave setting of specific stones
- ◆ select the correct size of grain tool in relation to the stone size
- ◆ use measuring tools correctly for burrs and gemstones
- ◆ maintain and sharpen tools when required using appropriate sharpening techniques

This Outcome is integrated with Outcome 3 in that candidates will use the tools and materials prepared in this Outcome to undertake the pave setting of gemstones in Outcome 3.

Assessment Guidelines

The assessment is likely to take the form of a checklist, to be completed over the series of practical exercises during the Unit, rather than completed at a single event.

Outcome 3

Perform pave setting techniques

Knowledge and/or Skills

- ◆ Drilling
- ◆ Burring
- ◆ Bright-cutting
- ◆ Beading
- ◆ Pilot holes
- ◆ Burr holes

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 complete pave setting on sheet metal for single stones and multiple stones in a linear arrangement. 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 appropriate to the gemstone being set. 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.

Higher National Unit specification: statement of standards (cont)

Unit title: Jewellery: Pave Setting Techniques

- ◆ perform bright cut engraving technique. The remaining metal should be suitable for the subsequent setting operation. Visually the remaining metal should be symmetrical.
- ◆ use beading tools to pave set the gemstones. Remaining beads must be intact and must avoid causing damage to the gemstones. Beading tools must be maintained as required.

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

Assessment Guidelines

The assessment is likely to take the form of a series of practical exercises over the course of the Unit, rather than being completed at a single event.

Administrative Information

Unit code: F3Y8 35

Unit title: Jewellery: Pave Setting Techniques

Superclass category: JH

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Higher National Unit specification: support notes

Unit title: Jewellery: Pave 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 'Pave' method of stone setting.

Candidates will gain experience in pave setting of gemstones in various arrangements and on various surfaces, as follows:

Single Stone: the setting of a single round brilliant cut stone set with two, three or four beads in isolation.

Multiple Stones in a line: a number of round brilliant cut stones set in a linear arrangement with multiple and shared beads. This method of setting would be suitable for the manufacture of eternity rings and other items of jewellery where a narrow band of metal is set with round brilliant cut stones.

In addition, there may be opportunities for candidates to undertake pave setting of multiple stones in group arrangement. This technique involves a number of round brilliant cut stones set in a group or cluster arrangement with multiple and shared beads. This method of setting would be suitable for the manufacture of a range of jewellery where areas of surface metal are to be decorated by the setting of multiple round brilliant cut stones. This work would not be formally assessed.

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 pave setting techniques.

It is recommended that candidates initially undertake formative work using larger stones, allowing them to gain some experience with the basic techniques, before graduating on to more complex work with smaller stones in linear and group 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 projects undertaken in other areas of the Group Award.

Higher National Unit specification: support notes (cont)

Unit title: Jewellery: Pave Setting Techniques

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 component Using Number 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 pave setting of small gemstones. They will also be required to overcome problems associated with the precision aspects of the pave setting technique. This, and performing any robust reflective practice 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 fellow candidates 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 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: Pave Setting Techniques

This Unit will allow you to develop the skills and underpinning knowledge required to pave set round brilliant cut gemstones into sheet metal. You will be taken progressively from simple single stone operations, to multiple operations of gemstones in linear and group arrangements.

On completion of the Unit you should be able to:

- 1 Plan arrangements of gemstones suitable for pave setting.
- 2 Prepare for pave setting.
- 3 Perform pave setting techniques.

In Outcome 1 you will learn how to arrange gemstones in a manner suitable to undertake pave setting.

In Outcome 2 you will learn about the various gravers and burrs used to undertake pave setting.

In Outcome 3 you will learn how to pave set small brilliant cut gemstones in the following two arrangements:

- ◆ Single Stone: the setting of a single round brilliant cut stone set with two, three or four beads in isolation.
- ◆ Multiple Stones in a linear arrangement: small numbers of round brilliant cut stones set in linear arrangements with multiple beads. This method of setting would be suitable for the manufacture of eternity rings and other items of jewellery where a narrow band of metal is set with round brilliant cut stones.

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