



Higher National Unit specification

General information for centres

Unit title: Plastering: Curved Moulded Work

Unit code: F8R2 34

Unit purpose: This Unit is designed to enable the candidate to develop their knowledge, understanding and skills relevant to the setting out running and production of curved mouldings. The candidate will demonstrate their understanding of techniques and practices as well as their practical abilities in setting out and running curved mouldings.

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

- 1 Produce scale drawings for curved mouldings.
- 2 Construct a running mould.
- 3 Run an elliptical panel moulding.
- 4 Set out and bed panel moulding.
- 5 Run an equilateral arch in-situ.

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 centres. However it is recommended that candidates have completed the professional development award in plastering at SQF level 6 or have the equivalent level of industrial experience and prior learning.

Core Skills: There are opportunities to develop the Core Skills of *Communication, Numeracy, Working with Others* and *Problem Solving* all at SCQF level 5 and *Information and Communication Technology* at SCQF level 4 in this Unit, although there is no automatic certification of Core Skills or Core Skills components.

Context for delivery: Context for delivery: If this Unit is delivered as part of a Group Award, it is recommended that it should be taught and assessed in the subject area of the Group Award to which it contributes. This Unit was developed as part of the professional development award in plastering at SCQF level 7 and is aimed at candidates following a career in plastering and with current industrial experience.

General information for centres (cont)

Assessment: The candidate will be given the opportunity to enhance their skills and knowledge in plastering by developing their understanding of curved moulded plasterwork. Techniques and practices used to construct curved moulded plasterwork should be integrated in the practical tasks undertaken. The principles and techniques should be explained throughout the practical activities.

This Unit is assessed on the candidates' performance of setting out, constructing and running moulds and the ability to meet the Evidence Requirements in all Outcomes.

In order to achieve this Unit, candidates are required to present sufficient evidence that they have met all the Knowledge and/or Skills elements for each Outcome. Details of these requirements are given for each Outcome.

The assessment instruments used should follow the general guidance offered by the Scottish Qualifications Authority (SQA) assessment model and an integrative approach to assessment is encouraged. (See references at the end of support notes).

Evidence will be gathered through observation of work processes and assessment of completed work. Assessment should be carried out under controlled, supervised conditions. Candidates must achieve all of the Knowledge and/or Skills and Evidence Requirements specified for each Outcome to gain this Unit. Centres may use the instrument of assessment which they consider to be most appropriate but are advised to use the Plastering Training and Assessment Programme (TAP) which has been developed centrally by SQA. Any other instruments of assessment used must be comparable to the TAP and have been through prior verification.

Accurate records should be made of the assessment instruments used showing how evidence is generated for each Outcome and giving marking schemes, checklists and recorded candidate feedback. Records of candidates' achievements should be retained. These records will be made available for external verification.

Higher National Unit specification: statement of standards

Unit title: Plastering: Curved Moulded Work

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The sections of the Unit stating the Outcomes, Knowledge and/or Skills, and Evidence Requirements are mandatory.

Outcome 1

Produce scale drawings for curved mouldings

Knowledge and/or Skills

- ◆ Interpret specifications
- ◆ Technical drawing equipment
- ◆ Drawing
- ◆ Curved mouldings

Evidence Requirements

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

- ◆ produce drawings of various curved mouldings such as segmental; equilateral, elliptical, lancet, four centred
- ◆ select and use appropriate drawing equipment

All the Evidence Requirements must be met and all items in the knowledge and skills covered. Evidence should be gathered through the production of annotated scale drawings of curved mouldings, segmental, equilateral, elliptical, lancet, four centred. Assessment should be conducted under open-book supervised conditions.

Assessment Guidelines

In the assessment candidates will be required to complete an assignment based on drawings and specifications for an actual work project where one of the curved mouldings (equilateral) will be used and run in the workshop, this could be conducted as an assignment in a classroom environment lasting up to three hours.

Higher National Unit specification: statement of standards (cont)

Unit title: Plastering: Curved Moulded Work

Outcome 2

Construct a running mould

Knowledge and/or Skills

- ◆ Transfer profile to zinc
- ◆ Accurately file profile
- ◆ Construct mould
- ◆ Safe working practices
- ◆ Sustainability/waste management
- ◆ Working to specifications and tolerances

Evidence Requirements

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

- ◆ transfer a profile
- ◆ produce a running mould with a gig stick for running an arch in-situ with an accurate zinc profile
- ◆ follow current safe working practices
- ◆ minimise the waste of materials throughout practical work
- ◆ work to specified tolerances identified in the specification

Candidates should be provided with drawings and specifications for the practical task. Assessment should be carried out in a suitable workshop environment. Timing for this assessment should be determined prior to commencement. An observation checklist should be completed to ensure the candidate has evidenced all the knowledge and skills included in this Outcome to the specifications and tolerances required.

Assessment Guidelines

This Outcome is assessed on the candidates' actual performance of constructing a running mould capable of running a equilateral arched moulding in-situ to given profile and specifications and tolerances. Candidates should use produced drawings and specifications for the practical task. Assessment should be carried out in a suitable workshop environment.

Higher National Unit specification: statement of standards (cont)

Unit title: Plastering: Curved Moulded Work

Outcome 3

Run an elliptical panel moulding

Knowledge and/or Skills

- ◆ Trammel
- ◆ Elliptical panel mould
- ◆ Safe working practices
- ◆ Sustainability/site waste management.
- ◆ Working to specifications/tolerances

Evidence Requirements

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

- ◆ accurately mark out the major and minor axis on the bench
- ◆ prepare and fix trammel to the bench
- ◆ run the moulding accurately
- ◆ follow current safe working practices
- ◆ minimise the waste of materials throughout practical work
- ◆ work to specified tolerances identified in the specification

Higher National Unit specification: statement of standards (cont)

Unit title: Plastering: Curved Moulded Work

Running mould shellaced	Two coats to seal mould
Mould and bench greased	No misses
Trammel fixed	Straight +/- 2mm
Gig stick correctly positioned	Straight +/- 2mm
materials	Correct materials selected and on hand
Mixing of materials	Mixed to a good consistency free of lumps and dry material
Moulding run	Run to polished finish with minimum blemishes
Moulding lifted	No damage

Candidates should be provided with drawings and specifications for the practical task. Assessment should be carried out in a suitable workshop environment. Timing for this assessment should be determined prior to commencement. An observation checklist should be completed to ensure the candidate has evidenced all the knowledge and skills included in this Outcome to the specifications and tolerances required.

Assessment Guidelines

This Outcome is assessed on the candidates' actual performance of setting out and running an elliptical moulding to given sizes and specifications. Assessment should be carried out in a suitable workshop environment. Timing for this assessment should be determined prior to commencement. An observation checklist should be completed to ensure the candidate has evidenced all the knowledge and skills included in this Outcome to the specifications and tolerances required

Outcome 4

Set out and bed an elliptical panel moulding

Knowledge and/or Skills

- ◆ Setting out
- ◆ Bedding and fixing
- ◆ Safe working practices
- ◆ Sustainability/waste management
- ◆ Working to specifications/tolerances

Evidence Requirements

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

- ◆ set out working lines accurately on a given background
- ◆ prepare the background to receive an elliptical moulding
- ◆ moulding is properly prepared for bedding
- ◆ accurately fixed to the background cleanly and securely
- ◆ follow current safe working practices
- ◆ work to specified tolerances identified in the specification

Higher National Unit specification: statement of standards (cont)

Unit title: Plastering: Curved Moulded Work

Setting out	+/_ 2mm
Background scratched	Deep and undercut
Background soaked	Dull suction
Moulding scratched and soaked materials	Deep and undercut/dull suction
Mixing of materials	Correct materials selected and on hand
Moulding bed	Mixed to a good consistency free of lumps and dry material
pointing	Fixed securely and accurately to working lines
	Cleanly with no misses and background clean

Candidates should be provided with drawings and specifications for the practical task. Assessment should be carried out in a suitable workshop environment. Timing for this assessment should be determined prior to commencement. An observation checklist should be completed to ensure the candidate has evidenced all the knowledge and skills included in this Outcome to the specifications and tolerances required.

Assessment Guidelines

This Outcome is assessed on the candidates' actual performance of setting out and bedding an elliptical moulding timing of this assessment should be determined prior to commencement. An observation checklist should be completed to ensure the candidate has evidenced all the knowledge and skills included in this Outcome to the specification and tolerances required.

Outcome 5

Run an equilateral arch in-situ

Knowledge and/or Skills

- ◆ Setting out of arches
- ◆ Preparation of backgrounds
- ◆ Running arches in-situ
- ◆ Safe working practices
- ◆ Sustainability/waste management
- ◆ Working to specifications/tolerances

Evidence Requirements

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

- ◆ set out an equilateral arch
- ◆ prepare background
- ◆ run an equilateral arch in-situ
- ◆ follow current safe working practices
- ◆ minimise the waste of materials throughout practical work
- ◆ work to specified tolerances identified in the specification

Higher National Unit specification: statement of standards (cont)

Unit title: Plastering: Curved Moulded Work

Running mould shellaced	Two coats to seal mould
Mould muffled	Approx 5mm above profile
Running lines struck	Straight +/- 2mm
Running points fixed	Straight +/- 2mm
materials	Correct materials selected and on hand
Mixing of materials	Mixed to a good consistency free of lumps and dry material
arch cored out	No misses
Muffle removed	
Core scratched	Deep scratch throughout length
materials	Correct materials selected and on hand
Mixing of materials	Mixed to a consistency of single cream and free from lumps and dry material
Finish run	Run to polished finish with minimum blemishes
Mitres and joints formed	accurately

Candidates should be provided with drawings and specifications for the practical task. Assessment should be carried out in a suitable workshop environment. Timing for this assessment should be determined prior to commencement. An observation checklist should be completed to ensure the candidate has evidenced all the knowledge and skills included in this Outcome to the specifications and tolerances required.

Assessment Guidelines

This Outcome is assessed on the candidates' actual performance of setting out and running an equilateral arch the timing of this assessment should be determined prior to commencement. An observation checklist should be completed to ensure the candidate has evidenced all the knowledge and skills included in this Outcome to the specification and tolerances required

Administrative Information

Unit code: F8R2 34

Unit title: Plastering: Curved Moulded Work

Superclass category: TG

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Version	Description of change	Date

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Higher National Unit specification: support notes

Unit title: Plastering: Curved Moulded Work

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 developed as an optional Unit in the Professional Development Award in Plastering at SCQF level 7 and may be delivered in a sequence suitable to individual candidates and centres.

This Unit is designed to enable the candidate to develop their knowledge, understanding and skills relevant to the conservation and restoration of plasterwork

Candidates following a career in plastering and with current industrial experience will benefit from undertaking this Unit.

The knowledge and skills for this Unit should be incorporated with traditional methods of running various curved mouldings both in-situ and on the bench and applied where possible. Terminology commonly associated with plastering should also be used throughout this Unit.

It is vitally important that candidates gain an understanding and knowledge of the sequencing of operations with regard to running curved mouldings

Current Health and Safety, sustainability and waste management issues should be fully emphasised throughout the delivery of this Unit.

Working to specified tolerances and methods of checking completed work should be demonstrated and undertaken by the candidate.

Guidance on the delivery and assessment of this Unit

The principles and methods of running curved mouldings should be demonstrated to the candidate before summative assessment takes place.

The differing constraints candidates could encounter on site with various construction methods with regard to running curved mouldings should be fully explained.

Health and Safety and Sustainability are integral and key to the Construction Industry therefore throughout the Unit emphasis will be placed where appropriate on the application of Health and Safety and Sustainability. Safety working practices should be looked at in accordance with current safety codes of practice and regulations. Sustainability should include reference to criteria affecting sustainability, impact of not implementing sustainability on the environment and the legislation promoting sustainability.

Working tolerances should be explained as being the minimum standard which will be accepted and candidates should be encouraged to evaluate their own work.

Higher National Unit specification: support notes (cont)

Unit title: Plastering: Curved Moulded Work

Opportunities for developing Core Skills

Communication skills at SCQF level 5 may be developed by the completion of the drawing for Outcomes. Candidates are required to produce a written assignment outlining the processes, techniques, health and safety and sustainability requirements related to running curved mouldings setting out and fixing curved mouldings

Working with Others at SCQF level 5 could be developed when working in pairs when setting out the arches to run insitu. Candidates can agree responsibilities and provide support and information to each other during the assessments. After assessment, they should be encouraged to consider how effectively they supported each other.

Problem Solving at SCQF level 5 could be developed as candidates compare and contrast modern and traditional methods of construction techniques. Candidates will need to take account of a range of factors in order to work efficiently and safely, such as the choice of tools, appropriate materials, safety issues, safety equipment and sustainability. Individual discussions with assessors will enhance the evaluation of efficient working practices.

Numeracy could be developed at SCQF level 5 when taking off dimensions from working drawings, measuring, calculating and setting out.

Open learning

Although this Unit could be delivered by distance learning, it would require a considerable degree of planning by the centre to ensure the sufficiency and authenticity of candidate evidence. Arrangements would have to be made to ensure that:

- ◆ the practical activity in outcome 2, 3, 4, 5 is supervised by a responsible person and clearly recorded (using an assessment checklist, or on video) for the assessor
- ◆ the assessor is, at some point able to question the candidate on the performance (face to face, by telephone, online)
- ◆ the open-book assignment for outcome 1 is conducted in a supervised environment

Disabled candidates and/or those with additional support needs

The additional support needs of individual candidates should be taken into account when planning learning experiences, selecting assessment instruments, or considering whether any reasonable adjustments may be required. Further advice can be found on our website

www.sqa.org.uk/assessmentarrangements

General information for candidates

Unit title: Plastering: Curved Moulded Work

This Unit is designed to develop your practical skills and knowledge of the running of complex curved mouldings both on the bench and in-situ. You will develop your understanding of modern and traditional practices and techniques and comply with sustainability issues and current Health and Safety legislation throughout the Unit.

You will have to demonstrate the required techniques in constructing running moulds to form arches in-situ and setting out of various arch types as well as running elliptical mouldings using a trammel.

You will learn about sustainability issues and how materials, techniques and systems can have an impact on improving the sustainability in general and you will comply with current Health and Safety regulations and legislation throughout.

Outcome 1: Produce scale drawings of curved mouldings

You will be assessed on the completion of a drawing in which you will be required to draw to scale a series of arches to include, lancet, equilateral, tudor, drop, ogee, segmental, approximate ellipse

The assignment for this Outcome will be open-book and will be carried out, out with the teaching environment and will require research and use of notes.

Outcome 2: Construct a running mould

You will be assessed in your understanding of how to:

- ◆ transfer profile to zinc and file
- ◆ cut timber and horse up mould
- ◆ form gig stick accurately

You will be assessed on the completion of a running mould with gig stick that shall be used to run an equilateral arch in-situ and also on the on the methods used to reproduce profiles for the construction of moulds. The assessment for this Outcome will be open-book and will be carried out in a supervised environment. You will have access to your own notes that you have prepared personally for your own use. You will not be permitted to bring textbooks, handouts or other materials that you have not prepared yourself.

Outcome 3: Run an elliptical panel moulding

You will be assessed in your ability to:

- ◆ set out the major and minor axis to determine the position of the running points
- ◆ set out and fix the trammel
- ◆ run a full elliptical panel moulding on the bench
- ◆ work in a safe manner
- ◆ meet specifications and tolerances

General information for candidates (cont)

Unit title: Plastering: Curved Moulded Work

You will be assessed in supervised workshop conditions to specified tolerances contained in an observation checklist. These tolerances should be fully explained and available prior to you commencing the assessment. You will be required to work individually for the assessment. You will receive both oral and written feedback on your performance from the assessor.

Outcome 4: Set out and bed elliptical panel moulding

You will be assessed on your ability to:

- ◆ set out and draw the elliptical moulding on the wall
- ◆ prepare background and moulding
- ◆ fix securely and accurately and neatly
- ◆ safe working practices
- ◆ sustainability/waste management
- ◆ working to specifications/tolerances

You will be assessed in supervised workshop conditions to specified tolerances contained in an observation checklist. These tolerances should be fully explained and available prior to you commencing the assessment. You will be required to work individually for the assessment. You will receive both oral and written feedback on your performance from the assessor.

Outcome 5; Run an equilateral arch in-situ

You will be assessed on your ability to:

- ◆ set out and prepare background
- ◆ muffle mould and core out
- ◆ run finish for arch
- ◆ run piece on bench to form apex and plant in place
- ◆ follow current safe working practices
- ◆ minimise waste of materials throughout practical work
- ◆ work to specified tolerances identified in the specification

You will be assessed in supervised workshop conditions to specified tolerances contained in an observation checklist. These tolerances should be fully explained and available prior to you commencing the assessment. You will be required to work individually for the assessment and where required in pairs. You will receive both oral and written feedback on your performance from the assessor.

There are opportunities for you to develop your Core Skills of *Communication, Numeracy, Working with Others* and *Problem Solving* all at SCQF level 5 and *Information and Communication Technology* at SCQF level 4 in this Unit, although there is no automatic certification of Core Skills or Core Skills components.