



## Higher National Unit specification

### General information for centres

**Unit title:** Plastering: Conservation and Restoration of Plasterwork

**Unit code:** F8R1 34

**Unit purpose:** This Unit is designed to enable the candidate to develop their knowledge, understanding and skills relevant to the conservation and restoration of plasterwork both solid and ornamental. The candidate will demonstrate their understanding of techniques and practices as well as their practical abilities in conserving and restoring plasterwork.

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

- 1 Explain the techniques for conserving and restoring plasterwork.
- 2 Outline methods of obtaining cornice profiles.
- 3 Produce zinc profiles for running in-situ and reverse.
- 4 Run plaster reverse mould with loose piece.
- 5 Run a cornice in-situ.
- 6 Identify the materials and explain methods used to secure and re-fix existing decorative plasterwork.

**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:** 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 learning about restoring and conserving plasterwork both solid and ornamental. Techniques and practices used to conserve and restore 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 restoring and conserving plasterwork 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:** Plasterwork: Conservation and Restoration of Plasterwork

**Unit code:** F8R1 34

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

### **Outcome 1**

Explain techniques conserving and restoring plasterwork

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

- ◆ Solid plasterwork
- ◆ Ornamental plasterwork
- ◆ Safe working practices
- ◆ Sustainability/site waste management

#### **Evidence Requirements**

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

- ◆ explain the materials and techniques used to conserve and restore traditional solid plasterwork
- ◆ identify safe working practices relevant to conserving and restoring traditional decorative plasterwork
- ◆ outline methods to minimise waste
- ◆ complete and assignment/report of the restoration and conservation techniques used in both solid and decorative plasterwork

#### **Assessment Guidelines**

Candidates will be required to complete an assignment based on drawings and specifications for an actual work project. This could be conducted as an assignment in a classroom environment lasting up to three hours.

### **Outcome 2**

Outline methods of obtaining cornice profiles

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

- ◆ Preparation techniques for producing profiles
- ◆ Methods of producing profiles
- ◆ Safe working practices
- ◆ Sustainability/waste management

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

**Unit title:** Plasterwork: Conservation and Restoration of Plasterwork

### **Evidence Requirements**

Candidates will need to provide evidence to demonstrate their Knowledge and/or Skills by showing that they have an understanding of how to:

- ◆ take a squeeze of a cornice
- ◆ copy a profile by using a saw draft and card
- ◆ cut section down and copy the profile
- ◆ follow current safe working practices
- ◆ minimise the waste of materials throughout practical work
- ◆ work to specified tolerances identified in the specification

All the Evidence Requirements must be met and all items in the knowledge and skills covered.

Evidence should be gathered through an assignment outlining the processes, techniques, health and safety and sustainability requirements related to producing profiles to match existing work

Assessment should be conducted under open-book supervised conditions.

### **Assessment Guidelines**

Candidates will be required to complete an assignment based on drawings and specifications for an actual work project. This could be conducted as an assignment in a classroom environment lasting up to 1 hour.

### **Outcome 3**

Produce zinc profiles for running in-situ and reverse

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

- ◆ Take a squeeze of cornice
- ◆ Make profile for running cornice in-situ
- ◆ Make profile for running reverse
- ◆ Sustainability/waste management
- ◆ Safe working practices
- ◆ Working to specifications/tolerances

### **Evidence Requirements**

Candidates will need to provide evidence to demonstrate their knowledge and skills by showing that they can:

- ◆ prepare a cornice and take a squeeze
- ◆ produce a cornice profile to run a cornice in-situ
- ◆ produce a cornice profile to produce a cornice reverse mould
- ◆ follow current safe working practices
- ◆ minimise the waste of materials throughout practical work
- ◆ work to specified tolerances (profiles to be +/- 1mm)

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

### **Unit title:** Plasterwork: Conservation and Restoration of Plasterwork

Evidence will be gathered through observation of work processes and assessment of the completed work. Assessment should be carried out under controlled, supervised conditions. In order to achieve this Outcome, candidates are required to present sufficient evidence that they have met all the Knowledge and/or Skills elements. An assessor observation checklist should be completed to ensure that the candidate has met the required specification and tolerances and this observation checklist should be retained as evidence.

#### **Assessment Guidelines**

This Outcome is assessed on the candidates' actual performance of preparing and taking a squeeze and producing profiles for reproducing cornices to a given specification and required tolerances.

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.

### **Outcome 4**

Run plaster reverse mould with loose piece

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

- ◆ Prepare reverse running mould for running loose piece
- ◆ Run reverse mould
- ◆ Run loose piece
- ◆ Prepare mould for casting
- ◆ Take a cast
- ◆ 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:

- ◆ run a reverse mould with a muffle plate
- ◆ accurately remove muffle plate and run loose piece
- ◆ prepare mould and take cast
- ◆ follow current safe working practices
- ◆ minimise the waste of materials throughout practical work
- ◆ work to specified tolerances identified in the specification

The following will assist the assessor in judging the candidate performance against the evidence

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

**Unit title:** Plasterwork: Conservation and Restoration of Plasterwork

Summary of standards (working towards industrial tolerances)	
Item	Measurement of standard
Outcome 4	
<b>Bench Preparation</b>	
Bench preparation	Work surface cleaned, checked for flatness +/- 2mm and any faults rectified
Bench sealed	Minimum of 3 coats of shellac each coat touch dry before the application of the next coat
Setting out running rule	Straight +/- 2mm
Bench greased	Fully with no misses
<b>Reverse mould</b>	
Muffle applied	Accurately to +/- 2mm
Materials	Correct materials selected and on hand
Mixing of materials	Mixed to a consistency of single cream and free from lumps and dry material
Reverse mould run	Straight ,clean and sharp with minimum blemishes
Reverse mould run	Minimum of 3 coats of shellac each coat touch dry before the application of the next coat
Profile cut and muffle removed	accurately
Reverse greased	Fully with no misses
<b>Loose piece run</b>	
Reinforcement	Hessian and lath cut to size +/- 2mm and placed correctly
Loose piece formed	Straight ,clean and sharp with minimum blemishes
Loose piece shellaced	Minimum of 3 coats of shellac each coat touch dry before the application of the next coat
<b>Mould prepared</b>	
Reverse greased	Fully with no misses
Reinforcement	Hessian and lath cut to size +/- 2mm and placed correctly
Materials	Correct materials selected and on hand
Mixing of materials	Mixed to a consistency of single cream and free from lumps and dry material
Firstings applied	Mould covered with no misses
Seconds applied	Firstings covered no misses
Scrim applied	Brushed in fully no misses
Laths applied	Soaked and covered
Scrim folded over	Brushed in fully no misses
Strike offs formed	Straight and flush and fully formed

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

**Unit title:** Plasterwork: Conservation and Restoration of Plasterwork

### **Assessment Guidelines**

This Outcome is assessed on the candidates' actual performance of preparing and running a reverse mould with loose piece and take a cast to a given specification and required tolerances.

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.

### **Outcome 5**

Run a cornice in-situ

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

- ◆ Setting out for running in-situ
- ◆ Run cornice in-situ
- ◆ Safe working practices
- ◆ Sustainability/site waste management
- ◆ Working to specifications

#### **Evidence Requirements**

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

- ◆ set out and fix rods
- ◆ muffle mould and core out using traditional materials
- ◆ run traditional finish for cornice to match existing
- ◆ follow current safe working practices
- ◆ minimise waste of materials throughout practical work
- ◆ work to specified tolerances identified in the specification

The following will assist the assessor in judging the candidate performance against the evidence.

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

**Unit title:** Plasterwork: Conservation and Restoration of Plasterwork

Summary of standards (working towards industrial tolerances)	
Item	Measurement of standard
Outcome 5	
<b>Preparation</b>	
Running mould shellaced	Two coats to seal mould
Mould muffled	Approx 5mm above profile
Running lines struck	Straight +/- 2mm
Rods fixed	Straight +/- 2mm
materials	Correct materials selected and on hand
Mixing of materials	Mixed to a good consistency free of lumps and dry material
<b>Cornice cored out</b>	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

### Assessment Guidelines

This Outcome is assessed on the candidates' actual performance of preparing and running a cornice in-situ to a given specification and required tolerances.

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 will be in the form of a written assessment describing the methods used to repair cornice and mouldings by running in-situ and should also be assessed on the candidates' actual performance of preparing and running a cornice in-situ to a given specification and required tolerances.

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.

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

**Unit title:** Plasterwork: Conservation and Restoration of Plasterwork

### **Outcome 6**

Identify the materials and explain methods used to secure and re-fix existing decorative plasterwork

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

- ◆ Secure and stabilise plasterwork
- ◆ Stucco wads
- ◆ Jack up ceilings

#### **Evidence Requirements**

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

- ◆ give a detailed description on the conservation of plasterwork
- ◆ use of squeezes and supports
- ◆ the re-fixing of decorative ceilings
- ◆ cutting and wadding of plasterwork to ensure stability and conservation of original work

#### **Assessment Guidelines**

Assessment will be in the form of an assignment/project which should have a logical sequence and presentation of work with clarity and accuracy.

## Administrative Information

<b>Unit code:</b>	F8R1 34
<b>Unit title:</b>	Plastering: Conservation and Restoration of Plasterwork
<b>Superclass category:</b>	TG
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### History of changes:

Version	Description of change	Date

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## **Higher National Unit specification: support notes**

### **Unit title:** Plastering: Conservation and Restoration of Plasterwork

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 restoring and conserving plasterwork 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 restoring and conserving plasterwork

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 restoring and conserving plasterwork 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 restoring and conserving plasterwork 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: Conservation and Restoration of Plasterwork

### *Opportunities for developing Core Skills*

*Communication* skills at SCQF level 5 may be developed by the completion of the assignment for Outcome 1. Candidates are required to produce a written assignment outlining the processes, techniques, health and safety and sustainability requirements related to setting out and installing surround and firebacks.

*Working with Others* at SCQF level 5 could be developed when working in pairs when installing the surround and hearth. 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.

*Information and Communication Technology* at SCQF level 4 may be developed by the candidates' carrying out individual research of modern and traditional surrounds and fireback construction techniques, health and safety legislation and sustainability relating to the task.

*Problem Solving* at SCQF level 5 could be developed as candidates compare and contrast modern and traditional surrounds and fireback 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 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](http://www.sqa.org.uk/assessmentarrangements)

## General information for candidates

### Unit title: Plastering: Conservation and Restoration of Plasterwork

This Unit is designed to develop your practical skills and knowledge of the restoration and conservation of plasterwork. 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 obtaining profiles, running reverse moulds with loose pieces and running cornices in-situ to match existing work and demonstrate your understanding of the traditional techniques and modern techniques of restoring and conserving plasterwork.

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: Explain techniques for conserving and restoring traditional plasterwork

You will be assessed on the completion of an assignment in which you will be required to describe and explain in detail the methods and materials used to restore and conserve traditional plasterwork

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: Outline methods for obtaining profiles from cornices

You will be assessed in your understanding of how to:

- ◆ take a squeeze
- ◆ use a saw draft and card to obtain a profile
- ◆ transfer profiles for construction of moulds

You will be assessed on the completion of an assessment 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: Produce profiles for running in situ and running reverse

You will be assessed in your ability to:

- ◆ take a squeeze of a cornice
- ◆ produce a profile for running in-situ
- ◆ produce a profile for running a reverse mould using a loose piece
- ◆ work in a safe manner
- ◆ meet specifications and tolerances

## General information for candidates (cont)

### Unit title: Plastering: Conservation and Restoration of Plasterwork

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.

#### Outcome 4: Run a reverse mould with loose piece

You will be assessed on your ability to:

- ◆ prepare reverse running mould for running loose piece
- ◆ run reverse mould
- ◆ run loose piece
- ◆ prepare mould for casting
- ◆ take a cast
- ◆ 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 and where required in pairs. You will receive both oral and written feedback on your performance from the assessor.

#### Outcome 5: Run a cornice in-situ

You will be assessed on your ability to:

- ◆ set out and fix rods
- ◆ muffle mould and core out using traditional materials
- ◆ run traditional finish for cornice to match existing
- ◆ 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.

## General information for candidates (cont)

### Unit title: Plastering: Conservation and Restoration of Plasterwork

Outcome 6: Explain the materials and methods used to secure and re-fix existing decorative plasterwork

You will be assessed on your understanding of how to secure and stabilise decorative and plain plasterwork with the use of stucco wads and how to jack up ceilings with supports and clay and stucco wads

You will be assessed on the completion of an assignment in which you will be required to describe and explain in detail the methods and materials used to secure and conserve traditional decorative plasterwork

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

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.