



Higher National Unit Specification:

General information for centres

Unit title: Stonemasonry: Cladding

Unit code: F8PT 34

Unit purpose: This Unit is designed to enable the candidate to develop their knowledge, understanding and skills relevant to stone cladding, forming expansion and compression joints. The candidate will demonstrate their understanding of techniques and practices as well as their practical abilities in the setting out and fixing of cladding.

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

- 1 Produce a schedule of materials and fixings.
- 2 Illustrate methods of cladding.
- 3 Fix cladding to backgrounds.

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 the centre. However it is recommended that candidates have completed the Professional Award in Stonemasonry at SCQF 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 Stonemasonry at SCQF level 7 and is aimed at candidates following a career in stonemasonry 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 stonemasonry by producing scale drawings of craft practice illustrating the fixing of cladding. Select types of fixings for specific purposes, illustrate the position of compression and expansion joints, explain setting out produces and describe methods of cladding. Produce a schedule of materials, fixings and work methods. List types of fixings for specific purposes and explain corrosion of metals and density of materials.

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 Stonemasonry 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: Stonemasonry: Cladding

The sections of the Unit stating the Outcomes, knowledge and/or skills, and evidence required are mandatory.

Outcome 1

Produce a schedule of materials and fixings;

Knowledge and/or skills

- ◆ Materials list
- ◆ Fixings list
- ◆ Types of fixings
- ◆ Corrosion and density of materials
- ◆ Calculate mass

Evidence Requirements:

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

- ◆ produce a schedule of materials that include compression and expansion joints and are all currently acceptable within the regulations
- ◆ produce a schedule of fixings that are fit for purpose and relate to the type of fixings used in various situations and work methods
- ◆ list types of fixings for specific purposes and situations
- ◆ explain corrosion of metals and density of metals used in cladding
- ◆ calculate from drawing the mass of scheduled cladding components

All the Evidence Requirements must be met and all items in the knowledge and skills covered. Evidence should be generated through assessments under supervised conditions. Candidates need to demonstrate their knowledge in all aspects of materials and fixings for stone cladding. This can be assessed by question papers.

The evidence for this should be obtained under closed-book, supervised conditions at an appropriate point in the Unit.

Assessment guidelines

The assessment of this Outcome can be achieved by written questions and a schedule. This Outcome can also be combined with Outcome 2 as part of a single assessment for the Unit, details of which are given under Outcome 2 below.

Candidates will be required to produce a schedule of materials, fixings and work methods. Oral or written evidence is needed to show the candidate can list types of fixings for specific purposes, explain corrosion of metals, density of materials. List materials used for compression and expansion joints, and calculate the mass of scheduled stones.

Higher National Unit Specification: statement of standards (cont)

Unit Title: Stonemasonry: Cladding

Outcome 2

Illustrate methods of cladding

Knowledge and/or skills

- ◆ Drawing of craft practice
- ◆ Types of fixings
- ◆ Types of joints
- ◆ Setting out and methods used

Evidence Requirements:

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

- ◆ producing annotated scale drawings of craft practice involving the fixing of cladding to solid backgrounds
- ◆ illustrate selection of types and fixings for specific purposes
- ◆ illustrate the position of compression and expansion joints
- ◆ explain setting out procedures and describe methods of cladding

All the Evidence Requirements must be met and all items in the knowledge and skills covered. Evidence should be generated through assessments under supervised conditions. Candidates need to demonstrate their knowledge in all aspects of stone cladding. This can be assessed by a drawing and question papers. The evidence for this should be obtained under closed-book, supervised conditions at an appropriate point in the Unit.

Assessment guidelines

The assessment of this Outcome can be combined with Outcome 1 as part of a single assessment for the Unit. The assessment of this Outcome can be achieved by written questions and a drawing. Evidence of actual performance is needed to show the candidate can produce a fully annotated scale drawing of a cladding exercise. Oral or written evidence is needed to show the candidate can explain in relation to detail drawing, setting out procedures and describe methods of cladding and responsibilities regarding health and safety. Assessment will be closed-book.

Outcome 3

Fix cladding to backgrounds

Knowledge and/or skills

- ◆ Levelling
- ◆ Setting out
- ◆ Form joints
- ◆ Fixing cladding
- ◆ Form soffet
- ◆ Pointing
- ◆ Sequencing work

Higher National Unit Specification: statement of standards (cont)

Unit Title: Stonemasonry: Cladding

Evidence Requirements:

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

- ◆ transfer levels from a pre-set datum point
- ◆ set out and fix first course level from datum point
- ◆ form expansion and compression joints in accordance with drawing and specification
- ◆ fix additional courses of cladding using appropriate methods and fixings
- ◆ form soffet course in accordance with drawing and specification using temporary supports where necessary
- ◆ flush point beds and joints and protect finished work
- ◆ sequencing work in order of completed project

The following specification will assist the assessor in judging the candidate performance against the Evidence Requirements.

Specification Checklist

Specification Checklist	
Item	Measurement of standard
Transfer of level	±1mm
First Course Plumb and Level	±3mm
Support course, compression joint Plumb and Level	±3mm
Additional course Plumb and Level	±3mm
Soffet Course Level	±3mm
Overall length and height Plumb and Level	±3mm
Face of stone clean	Yes/No
Pointing — neat flush finish	Yes/No
Health and safety	Complies at all times
Risk Assessment	Yes/No
Method Statement	Working area kept clean at all times Materials stacked correctly at all times Tools handled correctly at all times Tools cleaned and stored safely at end of working day

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

Higher National Unit Specification: statement of standards (cont)

Unit Title: Stonemasonry: Cladding

Assessment Guidelines

This Outcome is assessed on the candidates' actual performance of setting out and fixing stone cladding to background 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.

Administrative Information

Unit code: F8PT 34
Unit title: Stonemasonry: Cladding
Superclass category: TG
Original date of publication: August 2010
Version: 01

History of changes:

Version	Description of change	Date

Source: SQA

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Higher National Unit Specification: support notes

Unit Title: Stonemasonry: Cladding

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 Stonemasonry 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 producing schedules for materials and fixing masonry cladding.

Candidates successfully completing this Unit will gain the knowledge/skills to achieve a level of competence of someone who, from time to time, may be expected to carry out cladding work to buildings.

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

The knowledge and skills for this Unit should be incorporated with modern methods associated with a stonemasonry cladding, applied terminology commonly associated with stonemasonry should also be used throughout this Unit.

It is vitally important that candidates gain an understanding and knowledge of the fixing of cladding units to a solid background.

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 fixing cladding panels to a solid background should be demonstrated to the candidate before summative assessment takes place.

The differing constraints candidates could encounter on site with various methods and fixings used in cladding 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.

Higher National Unit Specification: support notes (cont)

Unit Title: Stonemasonry: Cladding

Opportunities for developing Core Skills

Communication skills at SCQF level 5 may be developed by the completion of the assignment for Outcome 1 and 2. Candidates are required to produce a schedule of materials and fixings, illustrating methods of cladding outlining the processes, techniques, health and safety and sustainability requirements related to cladding.

Working with Others at SCQF level 5 could be developed when working in pairs when fixing cladding units to solid background. 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 methods of cladding, 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 methods of fixing cladding. 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 and 3 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 closed-book assignment for outcomes 1 and 2 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

This Unit is designed to enable you to recognise schedule of materials, fixings, work methods and types of fixings.

General Information for Candidates

Unit Title: Stonemasonry: Cladding

Outcome 1 and 2

These Outcomes should enable the candidate to provide evidence to demonstrate their knowledge and skills by showing they can produce a schedule of materials, fixings and work method and can list types of fixings.

They will also explain corrosion of metals, density of materials list materials used for compression and expansion joints, and calculate the mass of scheduled stones.

To complete these Outcomes candidates will produce scale drawings of craft practice to include the illustration of the position of compression and expansion joints.

Outcome 3

The candidate successfully completing this Unit will be able to fix cladding to position, form expansion, compression joints and point finished work. Oral or written evidence is needed to show the candidate can describe, methods of protecting finished work, sequence stacking, pointing techniques, the use of temporary supports, the uses of types of tooling, and state responsibilities regarding statutory legislation.

The following may be helpful with regard to specific Outcomes:

- 1 Using information sources and previously gained competences, the candidate could be guided to understand the reasons and procedures for maintaining records of materials. Examples of delivery notes advice notes, invoices, and requisition forms could assist the candidate in this Outcome.
- 2 Using given information sources the candidate could be guided to setting out practices and techniques, culminating in setting out and levelling cladding panels.

Using information sources and previously gained competences, the candidate could be guided in the processes required to fulfil the assessment for this Outcome. An adequate supply of materials should be available and the adoption of safe working practices should be emphasised.

The following safety requirements apply: HSW Act (Health and Safety at Work etc Act); COSHH (Control of Substances Hazardous to Health)

The evidence may be produced on one assessment occasion or on more than one occasion and should be carried out under supervised conditions. Candidates must be observed in the attainment of all Outcomes and Performance Criteria in the statement of standards.

Each candidate will be observed in their ability to carry out given tasks correctly and safely. The health and safety regulations, acts, approved codes of practice and any amendments or updates made by statutory bodies apply to all Outcomes in this Unit:

The achievement of skills and underpinning knowledge required for this Unit will be assisted by the provision of information sources in the form of: oral and/or written instructions; graphic and photographic materials; technical information and examples of codes of practice; building standards; statutory regulations.

General Information for Candidates (cont)

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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.