



National Unit specification: general information

Unit title: Bricklaying: Masonry Cladding to Timber Framed Structures (SCQF level 6)

Unit code: H08M 12

Superclass: TG

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Summary

This Unit is suitable for candidates working towards a Modern Apprenticeship in Bricklaying and will develop the candidate's skills and knowledge in cladding to timber framed structures. This Unit is designed to provide candidates with competence in the use of tools and equipment to set out and build masonry cladding to timber framed structures and the ability to apply these skills in the workplace.

Outcomes

- 1 Demonstrate knowledge and understanding of the terminology, techniques, practices and materials used in masonry cladding to timber framed structures.
- 2 Produce fully annotated scaled working drawings of a masonry clad timber framed structure incorporating door and window openings.
- 3 Set out and build a straight length of masonry cladding to a timber framed structure incorporating a movement joint.
- 4 Set out and build masonry cladding to a timber framed structure with door and window openings.

Recommended entry

While entry to this Unit is at the discretion of the centre, candidates undertaking the Professional Development Award in Bricklaying at SCQF level 6 must meet the requirements of the Modern Apprentices which include being employed in the relevant craft industry.

General information (cont)

Unit title: Bricklaying: Masonry Cladding to Timber Framed Structures(SCQF level 6)

Credit points and level

1 National Unit credit(s) at SCQF level 6: (6 SCQF credit points at SCQF level 6*)

**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.*

Core Skills

There is no automatic certification of Core Skills or Core Skill components in this Unit. Opportunities for developing aspects of the following Core Skills are highlighted in Support Notes of this Unit.

- ◆ Problem Solving at SCQF level 4
- ◆ Working with others at SCQF level 4
- ◆ ICT at SCQF level 3
- ◆ Numeracy at SCQF level 4
- ◆ Communications at SCQF level 4

National Unit specification: statement of standards

Unit title: Bricklaying: Masonry Cladding to Timber Framed Structures(SCQF level 6)

Acceptable performance in this Unit will be the satisfactory achievement of the standards set out in this part of the Unit specification. All sections of the statement of standards are mandatory and cannot be altered without reference to SQA.

Outcome 1

Demonstrate knowledge and understanding of the terminology, techniques, practices and materials used in masonry cladding to timber framed structures.

Performance Criteria

- (a) Identify and select the correct practices, terminology, techniques and materials used in masonry cladding to timber framed structures.
- (b) Identify and select compounds associated with masonry cladding to timber framed structures

Outcome 2

Produce fully annotated scaled working drawings of a masonry clad timber framed structure incorporating door and window openings

Performance Criteria

- (a) Produce a drawing of a masonry clad timber framed structure to a prescribed scale and in compliance with the current Building Standards (Scotland) Regulations.
- (b) Annotate drawings accurately in accordance with the current Building Standards (Scotland) Regulations

Outcome 3

Set out and build a straight length of masonry cladding to a timber framed structure incorporating a movement joint.

Performance Criteria

- (a) Set out masonry cladding to the given specifications.
- (b) Build masonry cladding to the given specifications.
- (c) Position and space wall ties correctly.
- (d) Build masonry cladding components correctly.
- (e) Comply with current Health and Safety and Sustainability requirements during all work methods and activities.

National Unit specification: statement of standards (cont)

Unit title: Bricklaying: Masonry Cladding to Timber Framed Structures(SCQF level 6)

Outcome 4

Set out and build masonry cladding to a timber framed structure with door and window openings.

Performance Criteria

- (a) Set out masonry cladding for opening to the given specifications.
- (b) Build masonry cladding to the given specifications.
- (c) Position component for masonry cladding correctly.
- (d) Comply with current Health and Safety and Sustainability requirements during all work methods and activities.

Evidence Requirements for this Unit

Evidence is required to demonstrate that the candidates have achieved this Unit to the standard specified all Outcomes and Performance Criteria.

Written and/or oral recorded evidence is required to demonstrate that the candidate has achieved Outcomes 1 to the standard specified in the Performance Criteria. Candidates will be required to demonstrate their knowledge of terminology, techniques, practices and materials by defining retaining and anchor straps, identifying cavity barriers and weep vents, describe regulations for wall tie spacing and identifying practice on construction sequence and on differential movement. This assessment will be conducted under controlled, closed-book supervised conditions.

Product evidence is required to demonstrate that the candidate has achieved Outcome 2 to the standards specified in the Performance Criteria. Evidence should be developed in the form of a folio to show that the candidate can produce scale drawings of plans, elevations horizontal and vertical sections showing all necessary construction details of masonry cladding to timber framed structures.

This assessment will be conducted under controlled, closed-book supervised conditions.

Product and performance evidence is required to demonstrate that the candidate has achieved Outcomes 3 and 4 to the standards specified in the Performance Criteria. Candidates will be required to set out and build masonry cladding in either brick, block, natural stone or reconstituted stone to a timber framed structures incorporating a movement joint and with door and window openings. Assessment of these Outcomes will be evidenced through observation of work processes and assessment of the completed work. Candidates must meet the given standards during the practical assessment. An assessor observation checklist must be used to record this evidence. Assessment should be conducted under controlled, supervised conditions.

National Unit specification: statement of standards (cont)

Unit title: Bricklaying: Masonry Cladding to Timber Framed Structures(SCQF level 6)

Outcome 3

Summary of standards (working towards industrial tolerances)	
Item	Measurement of standard
Overall length	± 8mm
Gauge	± 5mm
Level	± 5mm
Plumb. Each point	± 5mm
Joint thickness	± 5mm
Faceplane	± 6mm
Horizontal DPC	Positioned as specified flush, with face ± 2mm. No tears with minimum lap 100mm
Timber frame ties	Positioned to building regulations
Anchor straps	Positioned as specified
Setting out position plumbed from firestop	± 3mm
Perpends	No deviation exceeding 5mm
Air brick and DPC tray	Positioned as specified, clean
Face of bricks	Facework clean, minimal smudging, no visual defects.
Pointing square recess key	± 3mm
Cavity	Clean with no ties bridged
Cavity width	± 3mm
Movement joint	Positioned as specified, free form mortar and debris
Movement joint ties	Positioned as specified.
Risk assessment	
Safety boots	Worn at all times
Hard hat	Worn at all times
High visibility vest	Worn at all times
All other PPE	As risk assessed
Method statement	
Working area	Kept clear at all times
Materials	Stacked safely at all times
Tools (during working)	Handled correctly at all times
Tools (after work)	Cleaned and stored safely
Sustainability	
Waste	Kept to a minimum at all times.
Recycling	Materials recycled whenever possible.
Waste disposal	Waste disposed correctly/appropriately

National Unit specification: statement of standards (cont)

Unit title: Bricklaying: Masonry Cladding to Timber Framed Structures(SCQF level 6)

Outcome 4

Summary of standards (working towards industrial tolerances)	
Item	Measurement of standard
Overall length	± 8mm
Openings	± 5mm
Gauge	± 5mm
Level	± 5mm
Square	± 5mm in 600mm
Plumb. Each point	± 5mm
Joint thickness	± 5mm
Faceplane	± 6mm
Horizontal DPC	Positioned as specified flush, with face ± 2mm. No tears with minimum lap 100mm
Vertical DPC	Positioned as specified flush with reveal or +25mm
Timber frame ties	Positions to building standards
Setting out position plumb from firestop	± 3mm
Perpends	No deviation exceeding 5mm
Pre-Cast sill (with DPC tray) projection 50mm	± 4mm
Steel lintel (allowing differential thermal movement)	Fixed as per manufacturer's instructions with uniform bearing ± 10mm
Soldier arch	Clean, no smudging, even joints ± 2mm
Weep Vents	Positioned as specified
Facework	Clean, minimal smudging, no visual defects
Masonry, flat key Finish	Full, neat.
Cavity	Clean with no ties bridged
Cavity width	± 3mm
Risk assessment	
Safety boots	Worn at all times
Hard hat	Worn at all times
High visibility vest	Worn at all times
All other PPE	As risk assessed
Method statement	
Working area	Kept clear at all times
Materials	Stacked safely at all times
Tools (during working)	Handled correctly at all times
Tools (after work)	Cleaned and stored safely
Sustainability	
Waste	Kept to a minimum at all times.
Recycling	Materials recycled whenever possible.
Waste disposal	Waste disposed correctly/appropriately

National Unit specification: support notes

Unit title: Bricklaying: Masonry Cladding to Timber Framed Structures (SCQF level 6)

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 a mandatory Unit in the Professional Development Award in Bricklaying at SCQF level 6.

The successful completion of this Unit will provide candidates with the required knowledge and skills relating to setting out techniques and construction practices associated with masonry cladding to timber framed structures.

This Unit would be offered to candidates working towards a Modern Apprenticeship in Bricklaying and will develop the candidate's skills in setting out and building masonry cladding to timber framed structures. The skills and knowledge and understanding are transferable within different working environments but the Unit is primarily aimed at candidates whose normal place of work would be a site, workshop, or similar environment.

The Unit deals with masonry cladding to timber framed structures including anchor/retaining straps, damp proof courses, weep vents, cavity trays, wall ties and spacing regulations, movement joints and forming openings.

It should be delivered as part of a structured programme of training and orientated to the context of the candidate's work and area of responsibility.

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 comply 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.

Guidance on learning and teaching approaches for this Unit

Candidates must be given the opportunity to further develop their skills in bricklaying by learning about masonry cladding to timber framed structures. Candidate centred learning and teaching approaches are encouraged with candidates actively participating in practical activities after lecturer demonstration of key construction practices and principles.

The use of effective questioning techniques to confirm understanding of salient learning objectives should be central to learning and teaching approaches used in classrooms or workshops.

Candidates should be encouraged to learn at their own pace with e-learning opportunities available to suit their preferred learning style.

National Unit specification: support notes (cont)

Unit title: Bricklaying: Masonry Cladding to Timber Framed Structures (SCQF level 6)

The use of e-learning as a teaching tool should be adopted by lecturers wherever possible to enable candidates to develop at their own pace using preferred learning styles. Learning and Teaching approaches should ensure that candidates are acquiring the underpinning knowledge required for the Unit in tandem with undertaking practical workshop activities

There are opportunities for candidates to develop co-operative working skills as the practical assessments may be carried out working in teams or in pairs. Candidates should take equal responsibility for activities and provide support and information to each other during assessments. After assessment, they should be encouraged to consider how effectively they supported each other.

Opportunities should be taken throughout delivery of this Unit to meet the requirements of the PDA generic Units and the Training and Assessment Programme including:

- ◆ *Conform to General Workplace Health Safety and Welfare*
- ◆ *Confirm Work Activities and Resources for the Work*
- ◆ *Develop and Maintain Good Working Relationships*
- ◆ *Confirm the Occupational Method of Work*
- ◆ *Conform to Productive Working Practices*
- ◆ *Move and Handle Resources*

Guidance on approaches to assessment for this Unit

Detailed assessment material for this Unit will be found in the Bricklaying Training and Assessment Programme (TAP) Centres may use the instruments of assessment which they consider to be most appropriate but are advised to use the Bricklaying 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.

The candidates' knowledge and understanding of the terminology, techniques, practices and materials used in masonry cladding to timber framed structures will be assessed through a question paper.

Candidates should be given as much practise as possible in setting out and bricklaying and masonry techniques, prior to being set the assessment. Evidence will be gathered for Outcomes 3 and 4 through observation that the candidates have met the given standards and tolerances during the practical assessment. An assessor observation checklist should be used to record this evidence.

National Unit specification: support notes (cont)

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Opportunities for the use of e-assessment

E-assessment may be appropriate for some assessments in this Unit. By e-assessment we mean assessment which is supported by Information and Communication Technology (ICT), such as e-testing or the use of e-portfolios or social software. Centres which wish to use e-assessment must ensure that the national standard is applied to all candidate evidence and that conditions of assessment as specified in the Evidence Requirements are met, regardless of the mode of gathering evidence. Further advice is available in *SQA Guidelines on Online Assessment for Further Education (AA1641, March 2003)*, *SQA Guidelines on e-assessment for Schools (BD2625, June 2005)*.

Opportunities for developing Core Skills

Components of the Core Skill of *Problem Solving* at SCQF level 4, such as Planning and Organising and Critical Thinking will be developed as candidates undertake this Unit. Candidates will need to take account of a range of factors in order to work efficiently and safely, such as the interpretation of drawings, choice of tools and appropriate materials, application of scientific principles, risk assessments, health, safety and welfare and a sustainable approach. Individual discussions with assessors will enhance the evaluation of productive work practices.

There are opportunities to develop the Core Skill of *Working with Others* at SCQF level 4, particularly in Outcomes 3, and 4, as these practical assessments should be carried out in pairs or teams. Candidates can agree responsibilities and provide support and information to each other during the practical group activities.

Opportunities also arise for candidates to develop the Core Skill of *Information and Communication Technology* at SCQF level 3 by researching Health and Safety legislation affecting their area of work, manufacturer's instructions and specifications, interpretation of drawings.

Numeracy at SCQF level 4 could be enhanced through the knowledge evidence in setting out and building masonry cladding to timber framed structures and the practical use of calculation and measurement required for teaching and learning assessments for Outcomes 1, 2, 3 and 4.

There will be opportunities for candidates to develop the Core Skills of *Communications* at SCQF level 4 through the knowledge part of the assessment for Outcomes 1 and 2. As candidates complete practical tasks in Outcomes 3 and 4, they should be expected to communicate with others using the correct terminology, tone and style suited to the workplace while interpreting drawings,

National Unit specification: support notes (cont)

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(SCQF level 6)

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

History of changes to Unit

Version	Description of change	Date

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