



## National Unit specification: general information

**Unit title:** Bricklaying: Half Brick Walling (SCQF level 6)

**Unit code:** H08P 12

**Superclass:** TG

**Publication date:** December 2011

**Source:** Scottish Qualifications Authority

**Version:** 01

## Summary

This Unit is suitable for candidates working towards a Modern Apprenticeship in Bricklaying and will develop the candidate's skills and knowledge in gauging and mixing mortar and setting out and building half brick walls. This Unit is designed to provide candidates with competence in the use of tools and equipment in preparing mortar and to set out and build half brick walls and their ability to apply these skills in the workplace.

## Outcomes

- 1 Demonstrate knowledge and understanding of gauging and mixing mortar.
- 2 Demonstrate knowledge and understanding of terminology, setting out techniques and construction practices used in building half brick walling.
- 3 Set out and build a straight length of half brick walling with stopped ends.
- 4 Set out and build a straight length of half brick walling with return corners, racked back.
- 5 Gauge and mix mortar.

## Recommended entry

While entry 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.

## Credit points and level

1 National Unit credit 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.*

## **General information (cont)**

**Unit title:** See Unit writer brief

### **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: Half Brick Walling (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 gauging and mixing mortar.

##### **Performance Criteria**

- (a) Identify and select mortar mixes correctly
- (b) Identify and select appropriate methods of mixing mortar.

#### **Outcome 2**

Demonstrate knowledge and understanding of terminology, setting out techniques and construction practices used in building half brick walling.

##### **Performance Criteria**

- (a) Identify and select terminology related to half brick walling correctly.
- (b) Identify and select setting out techniques correctly.
- (c) Identify and select components and construction practices correctly.

#### **Outcome 3**

Set out and build a straight length of half brick walling with stopped ends

##### **Performance Criteria**

- (a) Set out wall in accordance with the given specification.
- (b) Build wall in accordance with the given specification.
- (c) Comply with Health and Safety and sustainability requirements during all work methods and activities.

#### **Outcome 4**

Set out and build a straight length of half brick walling with return corners, racked back.

##### **Performance Criteria**

- (a) Set out wall in accordance with the given specification.
- (b) Build wall in accordance with the given specification.
- (c) Comply with Health and Safety and sustainability requirements during all work methods and activities.

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

**Unit title:** Bricklaying: Half Brick Walling (SCQF level 6)

### Outcome 5

Gauge and mix mortar.

#### Performance Criteria

- (a) Select mortar constituents.
- (b) Gauge and mix mortar.
- (c) Use and maintain hand-tools and equipment.

#### Evidence Requirements for this Unit

These Evidence Requirements will be met by the completion of the Bricklaying Training and Assessment Programme (TAP).

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 Outcome 1 and Outcome 2 to the standard specified in the Performance Criteria. Candidates will be required to demonstrate their knowledge of terminology, techniques and practices relating to gauging and mixing mortar and half brick walling. This assessment will take the form of a question paper and will be conducted under controlled, closed-book supervised conditions.

Product and performance evidence is required to demonstrate that the candidate has achieved Outcomes 3, 4 and 5 to the standards specified in the Performance Criteria. Candidates will be required to gauge and mix mortar, set out and build half brick walls. Assessment of these Outcomes will be evidenced through observation of work processes and assessment of the completed work-pieces. Candidates must meet the given standards and tolerances during the practical activity. Assessor observation checklist must be used to record this evidence. Assessment should be conducted under controlled, supervised conditions.

#### Outcome 3–5

Summary of standards (working towards industrial tolerances)	
Item	Measurement of Standard
Prepare area for mixing	Protect the work and surrounding area from damage
Identify and select mortar constituents	To the given specification
Gauge and mix constituents to correct consistency	To the given specification
Hand tools and mixing equipment is maintained and stored	To the given specification
Mixing waste is disposed of appropriately	To the given specification
Overall length	±10mm
Gauge	±10mm
Level	±10mm

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

**Unit title:** Bricklaying: Half Brick Walling (SCQF level 6)

Plumb at each point	±10mm
Joint thickness	±5mm
Faceplane	±10mm
Face of bricks	Facework clean, minimal smudging, no visual defects
Round key finish	Neat

<b>Outcome 4 only</b>	
Corner square	±5mm

<b>Summary of standards (working towards industrial tolerances)</b>	
<b>Item</b>	<b>Measurement of standard</b>
Risk assessment	
Safety boots	Worn at all times
Hard hat	Worn at all times
High visibility vest	Worn at all times
Gloves	Worn during mortar mixing process
All other PPE	As risk assessed
<b>Method statement</b>	
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
<b>Sustainability</b>	
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: Half Brick Walling (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 gauging and mixing mortar and terminology, setting out techniques and construction practices used in building half brick walling.

This Unit would be offered to candidates working towards a Modern Apprenticeship in Bricklaying and will develop the candidate's skills in gauging and mixing mortar and building half brick walling. 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 gauging and mixing mortars and half brick walling which includes building straight walls, corners and stopped ends. 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 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.

### **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 gauging and mixing mortar and setting out and building half brick walls. Candidate centred learning and teaching approach 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.

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.

## **National Unit specification: support notes (cont)**

### **Unit title:** Bricklaying: Half Brick Walling (SCQF level 6)

Learning and Teaching approaches should ensure that candidates are acquiring the underpinning knowledge required for the Unit in tandem with undertaking practical workshop activities.

### **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 terminology, techniques and practices relating to gauging and mixing mortar and half brick walling will be assessed through a question paper.

Candidates should be given as much practise as possible in gauging and mixing mortar and building half brick walls, prior to being set the assessment. Evidence will be gathered for Outcomes 3, 4 and 5 through observation that the candidates have met the given standards during the practical assessment. An assessor observation checklist should be used to record this evidence.

### **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, 4 and 5 as these practical assessments could be carried out in pairs or teams. Candidates can agree responsibilities and provide support and information to each other during the practical group activities.

## **National Unit specification: support notes (cont)**

### **Unit title:** Bricklaying: Half Brick Walling (SCQF level 6)

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. There may be opportunities to develop ICT skills level 3 where centres opt to use e-assessment, e-portfolios and/or online learning materials.

Numeracy at SCQF level 4 could be enhanced through the knowledge evidence in gauging and mixing mortar, set out and building half brick walling and the practical use of calculation and measuring scales required for teaching and learning assessments for Outcomes 1, 2, 3, 4 and 5.

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, 4 and 5 they should be expected to communicate with others using the correct terminology, tone and style suited to the workplace while interpreting drawings,

### **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)

## History of changes to Unit

Version	Description of change	Date

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