



## National Unit specification: general information

**Unit title:** Bricklaying: Repair and Brickwork Maintain Masonry Structures (SCQF Level 6)

**Unit code:** H08X 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 the repair and maintenance of masonry structures. This Unit is designed to provide candidates with competence in the use of tools and equipment to repair and maintain masonry structures and the ability to apply these skills in the workplace.

## Outcomes

- 1 Demonstrate an understanding of terminology, techniques and practices used in the repair and maintenance of existing brick, block or local walling.
- 2 Carry out the replacement of damaged or eroded existing brick, block or local walling.

## 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 credits 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:** Bricklaying: Repair and Maintain Brickwork Masonry Structures (SCQF level 6)

### **Core Skills**

Opportunities to develop aspects of Core Skills are highlighted in the Support Notes of this Unit specification.

There is no automatic certification of Core Skills or Core Skill components in this Unit.

## **National Unit specification: statement of standards**

**Unit title:** Bricklaying: Repair and Maintain Brickwork Masonry 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 an understanding of terminology, techniques and practices used in the repair and maintenance of existing brick, block or local walling.

#### **Performance Criteria**

- (a) Define correctly the terminology related to the repair and maintenance of existing brick, block or local walling.
- (b) Describe repair techniques and the use of hand tools, portable power tools and ancillary equipment correctly.
- (c) Identify practices related to the repair and maintenance of existing brick, block or local walling correctly.

### **Outcome 2**

Carry out the replacement of damaged or eroded existing brick, block or local walling.

#### **Performance Criteria**

- (a) Prepare, reinstate and finish wall to match existing in accordance with the given specification.
- (b) Repair/replace wall in accordance with the given specification.
- (c) Comply with current Health and Safety and Sustainability requirements during all work methods and activities.

#### **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 in 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 and practices by successful completion of a question paper relating to the repair and maintenance of masonry structures. This assessment will be conducted under controlled, closed-book supervised conditions.

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

**Unit title:** Bricklaying: Repair and Maintain Brickwork Masonry Structures (SCQF level 6)

Product and performance evidence is required to demonstrate that the candidate has achieved Outcomes 2 to the standards specified in the Performance Criteria. Candidates will be required to repair and maintain masonry structures. Assessment of this Outcome 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.

<b>Summary of standards (working towards industrial tolerances)</b>	
<b>Item</b>	<b>Measurement of Standard</b>
The new brick, block or local walling replacement matches existing	Yes/No
Preparation	Old joints and beds cut out fully
Bonding	Match existing
Piecing to match existing	+/- 3mm
Beds and Joints to match existing	+/- 2mm
Face left clean	Yes/No
Neat pointing to match existing	Yes/No
Health and Safety	Complies at all times
<b>Risk assessment</b>	
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
<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: Repair and Maintain Masonry 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 an optional Unit in the Professional Development Award in Bricklaying at SCQF level 6.

The successful completion of this Unit will provide candidates with the required underpinning knowledge and craft skills relating to repair and maintenance practices associated with the repair and maintenance of masonry structures.

This Unit would be offered to candidates working towards a modern apprenticeship in Bricklaying and will develop the candidates craft skills in the repair and maintenance of masonry 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 the repair and maintenance of masonry structures. 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 the repair and maintenance of masonry structures and its principles.

Candidate centred learning and teaching approach are encouraged with candidates actively participating in practical activities after lecturer demonstration of key construction practices and principles.

## National Unit specification: support notes (cont)

### **Unit title:** Bricklaying: Repair and Maintain Brickwork Masonry Structures (SCQF level 6)

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.

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 terminology, bonding arrangements, techniques and construction practices of the repair and maintenance of masonry structures will be assessed through a question paper.

Candidates should be given as much practise as possible in repair and maintenance of masonry structures prior to being set the assessment. Evidence will be gathered for Outcome 2 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 Outcome 2 as this practical assessment 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.

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 the repair and maintenance of masonry structures and the practical use of calculation and measuring required for teaching and learning assessments for Outcomes 1 and 2.

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 Outcome 1. As candidates complete the practical task in Outcome 2, 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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### **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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