



National Unit specification: general information

Unit title: Bricklaying: Reconstituted Stone (SCQF level 6)

Unit code: H08W 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 reconstituted stone. This Unit is designed to provide candidates with competence in the use of tools and equipment to set out and build coursed and un-coursed stonework and the ability to apply these skills in the workplace.

Outcomes

- 1 Demonstrate knowledge and understanding of the types, properties, applications, quantities, terminology and bonding arrangements associated with reconstituted stone.
- 2 Set out and build a coursed stone block cavity wall with return corner.
- 3 Set out and build an un-coursed stone timber-framed wall

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.

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)

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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

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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 types, properties, applications, quantities, terminology and bonding arrangements associated with reconstituted stone.

Performance Criteria

- (a) Identify and select the correct types of reconstituted stone blocks.
- (b) Complete bonding arrangements for coursed and uncoursed stonework
- (c) Identify and select properties, applications and terminology of reconstituted stone correctly.
- (d) Identify and select construction practices correctly.
- (e) Calculates quantities for coursed and un-coursed reconstituted stonework.

Outcome 2

Set out and build a coursed stone block cavity wall with return corner.

Performance Criteria

- (a) Set out a coursed stone block cavity wall with return corner to the given specifications.
- (b) Build a coursed stone block cavity wall with return corner to the given specifications.
- (c) Comply with current Health and Safety and sustainability requirements during all work methods and activities.

Outcome 3

Set out and build an un-coursed stone timber-framed wall.

Performance Criteria

- (a) Set out an un-coursed stone timber-framed wall to the given specifications.
- (b) Build an un-coursed stone timber-framed wall to the given specifications.
- (c) 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: Reconstituted Stone (SCQF level 6)

Evidence Requirements for this Unit

Evidence is required to demonstrate that candidates have achieved all Outcomes and Performance Criteria.

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 Outcomes 1 and 2 to the standard specified in the Performance Criteria. Candidates will be required to demonstrate their knowledge of types, properties, applications, quantities, terminology and bonding arrangements associated with reconstituted stone by successful completion of a question paper relating to Reconstituted Stone. 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 coursed stone to block cavity wall with a return corner and an un-coursed stone to timber frame wall to the given specifications including the correct positioning of damp proof course, wall and frame ties, anchor straps, fire stops and built to appropriate bonding arrangements. 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: Reconstituted Stone (SCQF level 6)

Outcome 2

Summary of standards (working towards industrial tolerances)	
Item	Measurement of standard
Overall length	±10mm
Gauge	±10mm
Level	±10mm
Plumb Arris each point	±7mm
Square on first course	±5mm in 600mm
Coursed pattern	Complies with bonding rules
Joint thickness	±5mm
Faceplane on each course	±10mm
Return ends	Dressed as specified
Horizontal DPC	Positioned as specified flush with face ±2mm. No tears, minimum lap 100mm
Wall ties	Positioned as per Building Standards
Perpends	No deviation exceeding ±5mm
Face of Stone	Left clean minimal smudging no visual defects
Round key finish	Joints full and uniform
Faceplane (blockwork)	±5mm
Plumb each point (blockwork)	±5mm
Level (blockwork)	±5mm
Gauge (blockwork)	±5mm
Blockwork flush	No open joints
Cavity	Clean with no ties bridges
Overall cavity wall width	±5mm
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)

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Outcome 3

Summary of standards (working towards industrial tolerances)	
Item	Measurement of standard
Overall length	±8mm
Openings	±5mm
Gauge	±5mm
Level	±5mm
Plumb each point	±5mm
Joint thickness	±5mm
Faceplane on each course	±6mm
Return ends	Dressed as specified
Horizontal DPC	Positioned as specified flush with reveal or +25mm. No tears, minimum lap 100mm
Vertical DPC	Positioned as specified flush with face ±2mm
Timber frame ties	Positioned as per Building Standards
Setting out position plumb from firestop	±3mm
Perpends	No deviation exceeding ±5mm
Weep Holes	Positioned as specified
Facework	Clean, minimal smudging. No visual defects.
Masonry flat key finish	Full joints. neat appearance.
Cavity	Clean with no ties bridges
Overall cavity wall 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: Reconstituted Stone (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 and building coursed stone to block cavity wall with a return corner and an un- coursed stone to timber frame wall to the given specifications including the correct positioning of damp proof course, wall and frame ties, anchor straps, fire stops and built to appropriate bonding arrangements.

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 build reconstituted stonework 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 setting out bonding and building coursed and un-coursed reconstituted stonework and related construction practices and techniques 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 reconstituted stonework. 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: Reconstituted Stone (SCQF level 6)

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.

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.

National Unit specification: support notes (cont)

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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 reconstituted stone and the practical use of calculation of stone quantities 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.

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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