



## **National Unit specification: general information**

**Unit title:** Stonemasonry: Ashlar Walling (SCQF level 6)

**Unit code:** H0PR 12

**Superclass:** TG

**Publication date:** March 2012

**Source:** Scottish Qualifications Authority

**Version:** 01

## **Summary**

This Unit is suitable for candidates working towards a Modern Apprenticeship in Stonemasonry and will develop the candidate's craft skills in ashlar walling. This Unit is designed to provide candidates with competence in the use of tools and equipment to set out and build ashlar walling with projections, and the ability to apply these skills in the workplace. It is also designed to enable candidates to develop their understanding and use of stonemasonry terminology, components, techniques and practices to set out and build ashlar walling with projections.

## **Outcomes**

- 1 Demonstrate knowledge and understanding of terminology, components and construction practices used in setting out and building of ashlar walling.
- 2 Set out and build ashlar walling with projecting courses.
- 3 Flush point ashlar walling.
- 4 Determine sizes, quantities and cost of related building project.

## **Recommended entry**

While entry is at the discretion of the centre, candidates undertaking the Professional Development Award in Stonemasonry 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:** Stonemasonry: Ashlar Walling (SCQF level 6)

### Credit points and level

0.5 credit at SCQF level 6 (3 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

Achievement of this Unit gives automatic certification of the following:

|                      |                                  |
|----------------------|----------------------------------|
| Complete Core Skill  | None                             |
| Core Skill component | Critical Thinking @ SCQF level 4 |

There are also opportunities to develop aspects of Core Skills which are highlighted in the Support Notes of this Unit Specification.

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

### **Unit title: Stonemasonry: Ashlar 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 terminology, components and construction practices used in setting out and building of ashlar walling.

##### **Performance Criteria**

- (a) Define terminology relating to ashlar walling.
- (b) Identify and select setting out techniques correctly.
- (c) Identify and select components and construction practices correctly.

#### **Outcome 2**

Set out and build ashlar walling with projecting courses.

##### **Performance Criteria**

- (a) Set out walling in accordance with the given specification.
- (b) Build walling in accordance with the given specifications.
- (c) Build walling plumb and to correct alignment and secure projections.
- (d) Comply with current Health and Safety requirements during all work methods and activities.

#### **Outcome 3**

Flush point ashlar walling.

##### **Performance Criteria**

- (a) Point all joints and beds.
- (b) Gently apply soft brush to remove excess mortar.
- (c) Comply with current Health and Safety requirements during all work methods and activities.

#### **Outcome 4**

Determine sizes, quantities and cost of related building project.

##### **Performance Criteria**

- (a) Correctly interpret and implement instructions.
- (b) Determine the sizes of components within an accepted range.
- (c) Determine quantities of components within an accepted range.
- (d) Determine the cost of related building project within an accepted range.

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

**Unit title:** Stonemasonry: Ashlar Walling (SCQF level 6)

### **Evidence Requirements for this Unit**

These Evidence Requirements will be met by the completion of the Stonemasonry Training and Assessment Programme (TAP). Evidence is required to demonstrate that the candidate has 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 Outcome 1 to the standard specified in the Performance Criteria. Candidates will be required to demonstrate their knowledge of terminology, components, techniques and practices by defining terms, describing setting out techniques and identifying required components and construction practices. 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 2 and 3 to the standards specified in the Performance Criteria. Candidates will be required to build ashlar walling with a projecting course. Assessment of these Outcomes will be evidenced through observation of work processes and assessment of the completed workpiece. Candidates must meet the given standards and tolerances during the practical assessments. An assessor observation checklist must be used to record this evidence. Assessment should be conducted under controlled, supervised conditions.

Candidates will work in pairs for Outcomes 2 and 3.

Written and/or oral recorded evidence is required to demonstrate that the candidate has achieved Outcome 4 to the standard specified in the Performance Criteria. Candidates will be required to carry out a costing exercise for a given building project.

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

**Unit title:** Stonemasonry: Ashlar Walling (SCQF level 6)

### Outcome 2

| <b>Summary of standards (working towards industrial tolerances)</b> |   |
|---|---|
| <b>Item</b>   | <b>Measurement of standard</b>  |
| Overall length 2410 mm  | ±5 mm   |
| Gauge 915 mm + Projection Height                                    | ±2 mm   |
| Plumb on all points   | ±5 mm   |
| Level (True and Straight.)  | ±5 mm   |
| Faceplane   | ±5 mm   |
| Joint thickness 5 mm  | ±2 mm   |
| Face of stone clean   | Yes/No  |
| Projections to specification.                                       | Yes/No  |
| Health and safety   | Complies at all times   |
| Risk Assessment   | Safety boots worn at all times<br>Hard hat worn at all times<br>High visibility vest worn at all times<br>All other PPE as risk assessed  |
| Method Statement  | Working area kept clean at all times<br>Materials stacked correctly at all times<br>Tools handled correctly at all times<br>Tools cleaned and stored safely at end of working day |

### Outcome 3

| <b>Summary of standards (working towards industrial tolerances)</b> |   |
|---|---|
| <b>Item</b>   | <b>Measurement of standard</b>  |
| Face of stone clean   | Yes/No  |
| Pointing — neat flush finish and to specification                   | Yes/No  |
| Health and safety   | Complies at all times   |
| Risk Assessment   | Safety boots worn at all times<br>Hard hat worn at all times<br>High visibility vest worn at all times<br>All other PPE as risk assessed  |
| Method Statement  | Working area kept clean at all times<br>Materials stacked correctly at all times<br>Tools handled correctly at all times<br>Tools cleaned and stored safely at end of working day |

## **National Unit specification: support notes**

### **Unit title: Stonemasonry: Ashlar 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 20 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 Stonemasonry at SCQF level 6.

The successful completion of this Unit will provide candidates with the required underpinning knowledge and skills relating to setting out techniques and construction practices and components associated with setting out and building ashlar walling.

This Unit should be offered to candidates from the construction and related services industries. 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 and building ashlar walling with a projecting course. 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 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**

The candidate is required to develop the ability to set out and build ashlar walling in a safe manner at all times and, therefore, it is anticipated that the majority of learning will take place in a workshop/site environment.

Practical demonstrations underpinned by effective questioning techniques should focus on key skills, construction practices, techniques and underpinning knowledge related to the setting out and building of ashlar walling. During the learning process, practical learning is fundamental as candidates must become proficient in terminology and construction practices relevant to ashlar walling.

It is recommended that this Unit be delivered in order of Outcomes as the order stated in the Statement of Standards.

## National Unit specification: support notes (cont)

### Unit title: Stonemasonry: Ashlar Walling (SCQF level 6)

Opportunities should be taken throughout delivery of this Unit to meet the requirements of the generic Units of 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, Handle or Store Resources

### Guidance on approaches to assessment for this Unit

Detailed assessment material for this Unit will be found in the Stonemasonry TAP. Centres may use the instruments of assessment which they consider to be most appropriate but are advised to use the Stonemasonry 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 candidate's knowledge and understanding of terminology, techniques and construction practices and components related to setting out and construction of ashlar walling will be assessed through a question paper.

Candidates should be given as much practise as possible in setting out and building of ashlar walling prior to being set the assessment. Evidence will be gathered for Outcomes 2 and 3 through observation of work processes and assessment of the completed workpiece to ensure 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.

### 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)*.

## National Unit specification: support notes (cont)

**Unit title:** Stonemasonry: Ashlar Walling (SCQF level 6)

### Opportunities for developing Core Skills

Components of the Core Skill of *Problem Solving*, such as Planning and Organisation 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 choice of tools, appropriate materials, safety issues, safety equipment and sustainability. Individual discussions with assessors will enhance the evaluation of efficient working practices.

There are opportunities to develop the Core Skill of *Working with Others* at SCQF level 4, particularly in Outcomes 2 and 3 as this practical assessment may be carried out working in pairs, as part of teaching and learning. 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.

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.

Numeracy at SCQF level 4 could be developed through the interpretation of information from three dimensional working drawings and the practical use of calculation and measuring scales required for teaching and learning assessments for Outcome 2.

There will be opportunities for candidates to develop the Core Skill of *Communication* at SCQF level 4. Candidates will have the opportunity to develop written and/or oral communication skills for the knowledge part of the assessment for Outcome 1. As candidates complete practical tasks, they should be expected to communicate with others using the correct terminology, tone and style suited to the workplace.

This Unit has the Critical Thinking component of Problem Solving embedded in it. This means that when candidates achieve the Unit, their Core Skills profile will also be updated to show they have achieved Critical Thinking at SCQF level 4.

### 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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