



National Unit specification

General information

Unit title: Fundamentals of Cavity Walling (SCQF level 5)

Unit code: F1JX 11

Superclass: TG

Publication date: April 2016

Source: Scottish Qualifications Authority

Version: 02

Unit purpose

This Unit is suitable for learners who have some experience in bricklaying. The Unit will further develop the craft skills in bricklaying, and will introduce the learner to the principles of cavity wall construction. The Unit is designed as a possible progression route into the Bricklaying Vocational Qualification. Learners who complete this Unit will have developed some knowledge and skills which will enable them to go forward with confidence to more demanding Units in brickwork.

Outcomes

On successful completion of the Unit the learner will be able to:

- 1 Demonstrate the knowledge and understanding required to build cavity walling.
- 2 Build a straight length of cavity walling.
- 3 Lay a horizontal Damp Proof Course.
- 4 Position wall ties correctly.
- 5 Build a return corner in cavity walling.

Credit points and level

1 National Unit credit at SCQF level 5: (6 SCQF credit points at SCQF level 5)

National Unit specification: General information (cont)

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Recommended entry to the Unit

Whilst entry is at the discretion of the centre, learners would normally be expected to have attained either of the following Units:

Half Brick Walling: An Introduction (SCQF level 4)

One Brick Walling: An Introduction (SCQF level 5)

Core Skills

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

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

Context for delivery

If this Unit is delivered as part of a Group Award, it is recommended that it should be taught and assessed within the subject area of the Group Award to which it contributes.

Equality and inclusion

This Unit specification has been designed to ensure that there are no unnecessary barriers to learning or assessment. The individual needs of learners should be taken into account when planning learning experiences, selecting assessment methods or considering alternative evidence.

Further advice can be found on our website www.sqa.org.uk/assessmentarrangements.

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 the knowledge and understanding required to build cavity walling.

Performance Criteria

- (a) Identify the correct sequence to measure and set out cavity walling.
- (b) Identify the correct sequence to dry bond the first course of bricks.
- (c) Identify the correct positioning of wall ties and Damp Proof Course.
- (d) Identify the correct techniques, terminology and sequences used in building cavity walling.

Outcome 2

Build a straight length of cavity walling.

Performance Criteria

- (a) The wall is built to the given working drawings.
- (b) The wall is built to the prescribed tolerances and standards

Outcome 3

Lay a horizontal Damp Proof Course.

Performance Criteria

- (a) The correct Damp Proof Course material is selected and used.
- (b) The Damp Proof Course is located on the correct course.
- (c) The Damp Proof Course is positioned correctly.
- (d) The Damp Proof Course is built in correctly.

Outcome 4

Position wall ties correctly.

Performance Criteria

- (a) The correct type of wall ties are selected and used
- (b) The wall ties are bedded in and positioned correctly
- (c) The wall ties are spaced correctly

National Unit specification: Statement of standards (cont)

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Outcome 5

Build a return corner in cavity walling.

Performance Criteria

- (a) The wall is built to the given working drawings.
- (b) The wall is built to the prescribed standards and tolerances.

Evidence Requirements for this Unit

Learners must adhere to relevant Health and Safety regulations and legislation relating both to working practices within the construction environment, as well as those specific to any practical task they are requested to carry out (such as emphasising the importance of selecting and using the correct PPE at all times).

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

Written and/or oral evidence is required which demonstrates that the learner has achieved Outcome 1 to the standards specified in the Outcome and Performance Criteria. The evidence for this Outcome should be obtained under controlled, supervised conditions. The assessment will be closed-book and should last no more than 45 minutes.

Performance evidence supplemented with an assessor observation checklist/record should be used to show that the learner has achieved Outcomes 2, 3, 4 and 5 to the standard specified in the Outcomes and Performance Criteria. Each learner will be observed to show that they can achieve the following throughout the delivery of the Unit:

- ◆ measure walls out accurately
- ◆ set out and dry bond the first course correctly
- ◆ set out the cavity on the first course
- ◆ build cavity walls working from information given on 3-dimensional drawings
- ◆ behave in a safe manner at all times

These cavity walls will include:

- 1 A straight length of cavity wall (minimum height eight courses, minimum length eight bricks).
- 2 A return corner in cavity walling to include racking back (minimum height eight courses).

It is recommended that learners should work individually to carry out Outcomes 2 and 5.

Assessment of this Unit should be completed over a period of time and evidence should be gathered at appropriate intervals.



National Unit Support Notes

Unit title: Fundamentals of Cavity Walling (SCQF level 5)

Unit Support Notes are offered as guidance and 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 National Progression Award in Construction and can also be delivered as a free-standing Unit.

The content and context of this Unit is aimed at learners who are interested in pursuing a career in the craft of bricklaying. Learners will be required to gain an understanding of the correct terminology and sequences of cavity wall insulation and will gain practical experience of building cavity walls to given tolerances with the use of 3-dimensional drawings. The sound construction principles of correct positioning and placing of wall ties and Damp Proof Courses are emphasised, and firm guidance on safe working practices be given at all times. There is an emphasis in developing the basic skills normally taught to an apprentice at the very early stage of time-serving. It is imperative that there is firm guidance on the continued development of safe working practices at this stage of the award.

The learning environment for this Unit will be a combination of classroom and workshop based learning. The knowledge element of this Unit would be taught in a classroom environment and put into practice in the workshop in conjunction with practical Outcomes.

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 approaches to delivery of this Unit

The learner is given the opportunity to further develop the skills of bed spreading and jointing brick techniques used in the bricklaying craft. The use of a pocket level should be encouraged for plumbing the first three courses of brickwork. The terms used for cavity wall construction should be integrated to the practical tasks undertaken, and the basic principles of damp prevention explained as the cavity wall is being built. This teaching approach should ensure the learner is acquiring the underpinning knowledge required for the Unit. The critical importance of correct positioning and laying of the Damp Proof Course must be constantly emphasised during the practical work. Likewise, the importance of correct wall tie positioning must also be referred to regularly.

National Unit Support Notes (cont)

Unit title: Fundamentals of Cavity Walling (SCQF level 5)

Guidance on approaches to assessment of this Unit

Centres may use the method of assessment which they consider to be most appropriate but are encouraged to use the Training Assessment Programme (TAP) developed centrally by SQA. It is expected that learners will have to demonstrate current knowledge and understanding of safe working practice and risk assessment methods, etc prior to being set the assessment tasks.

Knowledge and Understanding of the processes involved in *Fundamentals of Cavity Walling (SCQF level 5)* should be assessed before any practical assignments are carried out by learners. This will include assessment of a learner's ability to prepare the work area for laying modular pavement.

Practical assignments should be carried out under supervised conditions and recorded in an assessor observation/operational checklist. Assessments should confirm that a learner has the ability to safely lay modular pavement using designated machinery or equipment correctly and safely, whilst adhering to current statutory Health and Safety regulations and legislation.

Adherence to current statutory working regulations and Health and Safety procedures will be observed during the practical exercise carried out by the learner towards all Outcomes.

Detailed assessment material for this Unit will be found in the relevant 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 TAP which has been developed centrally by SQA. Any other instruments of assessment used must be comparable to the TAP and have been prior verified.

Opportunities for 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 learner evidence and that conditions of assessment as specified in the Evidence Requirements are met, regardless of the mode of gathering evidence. The most up-to-date guidance on the use of e-assessment to support SQA's qualifications is available at www.sqa.org.uk/e-assessment.

National Unit Support Notes (cont)

Unit title: Fundamentals of Cavity Walling (SCQF level 5)

Opportunities for developing Core and other essential skills

The elements of the Core Skill of *Problem Solving*, such as Planning and Organising and Critical Thinking will be developed and enhanced as learners undertake this Unit. Learners 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 for learners to develop co-operative working skills, particularly in Outcomes 3 and 4, as these practical assessments may be carried out in pairs, as part of teaching and learning. Learners 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 learners to develop the Core Skill of *Information and Communication Technology (ICT)* by researching Health and Safety legislation affecting their area of work.

Numeracy skills will be naturally enhanced through the interpretation of information from 3-dimensional working drawings and the practical use of calculation and measuring scales required for teaching and learning assessments for Outcomes 2, 3, 4 and 5.

Although *Communication* skills are not formally assessed, learners will have the opportunity to develop written and/or oral communication skills for the knowledge part of the closed-book assessment for Outcome 1 teaching and learning assessment. As learners complete practical tasks, they should be expected to communicate with others using the correct terminology, tone and style suited to the workplace.

History of changes to Unit

Version	Description of change	Date
02	Clarification of Standards and updated to new Unit Specification Standard.	29/04/16

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General information for learners

Unit title: Fundamentals of Cavity Walling (SCQF level 5)

This section will help you decide whether this is the Unit for you by explaining what the Unit is about, what you should know or be able to do before you start, what you will need to do during the Unit and opportunities for further learning and employment.

This Unit is aimed at those who are interested in pursuing a career in the craft of bricklaying. You will gain an understanding of the terminology and sequences of cavity wall insulation and will gain practical experience of building cavity walls and the use of 3-dimensional drawings.

You will also be provided with the knowledge to allow you to appreciate the reasons for carrying out the practical work in the manner directed and the reasons for using specific tools, materials, components and equipment.

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 will be looked at in accordance with current safety codes of practice and regulations.

There will be a series of training exercises followed by some practical task based assessment and multi choice knowledge assessment. Completion of the Unit will provide you with the basic skills necessary to enable you to progress to more complex aspects of Cavity Walling which in turn will further develop your skills and knowledge.

The elements of the Core Skill of *Problem Solving*, such as Planning and Organising and Critical Thinking will be developed and enhanced as you undertake this Unit. You 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.

There are opportunities to develop co-operative working skills, where you will agree responsibilities and provide support and information to others during assessment.

Opportunities also arise to develop the Core Skill of *Information and Communication Technology (ICT)* by researching Health and Safety legislation affecting your area of work.

Numeracy skills will be naturally enhanced through the interpretation of information from 3-dimensional working drawings and the practical use of calculation and measuring scales.

Although *Communication* skills are not formally assessed, you will have the opportunity to develop Written and/or Oral Communication skills.