



## National Unit specification: general information

**Unit title:** Wall and Floor Tiling: Tiling Equipment and Power Tools

**Unit code:** H009 12

**Superclass:** TG

**Publication date:** November 2011

**Source:** Scottish Qualifications Authority

**Version:** 01

## Summary

This Unit is suitable for candidates undertaking a Modern Apprenticeship in Wall and Floor Tiling. The Unit is designed to provide candidates with the knowledge and practical use of tiling equipment and power tools used in a wall and floor tiling context. Candidates will be required to carry out practical activities including the safe use of cement mixers and cutting tools. Candidates underpinning knowledge and understanding of the types and safe methods of use of tiling tools and equipment, and the correct use of cement mixer and electrically powered tile cutting machine.

## Outcomes

- 1 Identify types and safe methods of use of tiling tools and equipment.
- 2 Demonstrate the correct use of a cement mixer.
- 3 Demonstrate the correct use of an electrically powered tile cutting machine.
- 4 Demonstrate the correct use of a hand held paddle mixer.

## Recommended entry

While entry is at the discretion of the centre, candidates undertaking the Professional Development Award in Wall and Floor Tiling at SCQF level 6 must meet the requirements of the Modern Apprentice, 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:** Wall and Floor Tiling: Tiling Equipment and Power Tools

### **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:** Wall and Floor Tiling: Tiling Equipment and Power Tools

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**

Identify types and safe methods of use of tiling tools and equipment.

##### **Performance Criteria**

- (a) Identify wall tiling tools and equipment.
- (b) Identify floor tiling tools and equipment.
- (c) Identify cement work tools and equipment.
- (d) Identify tools and equipment used for setting out wall and floor tiling.
- (e) Identify safe working practices for power tools and tiling equipment.

#### **Outcome 2**

Demonstrate the correct use of a cement mixer.

##### **Performance Criteria**

- (a) Correctly check cement mixer prior to use.
- (b) Correctly mix cement using a cement mixer.
- (c) Demonstrate correct methods of cleaning a cement mixer.
- (d) Comply with current health and safety regulations in all activities.

#### **Outcome 3**

Demonstrate the correct use of an electrically powered tile cutting machine.

##### **Performance Criteria**

- (a) Correctly check tile cutter prior to use.
- (b) Correctly cut tiles using an electrically powered tile cutting machine.
- (c) Demonstrate correct methods of cleaning an electrically powered tile cutting machine.
- (d) Comply with current health and safety regulations in all activities.

#### **Outcome 4**

Demonstrate the correct use of a hand held paddle mixer.

##### **Performance Criteria**

- (a) Correctly check mixer prior to use.
- (b) Correctly mix adhesive using a paddle mixer.
- (c) Demonstrate correct methods of cleaning a paddle mixer.
- (d) Comply with current health and safety regulations in all activities.

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

**Unit title:** Wall and Floor Tiling: Tiling Equipment and Power Tools

### Evidence Requirements for this Unit

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

Evidence is required to demonstrate that the candidates have achieved this Unit to the standard specified in all the Outcomes and Performance Criteria. All working practices must be in line with relevant and current Health and Safety legislation and regulations.

#### Outcome 1

Written and/or oral evidence is required to show that the candidate has achieved the standards specified in the Performance Criteria in Outcome 1. Underpinning knowledge must cover identifying wall and floor tiling tools and equipment, cement work tools and equipment and identify tools and equipment used for setting out wall and floor tiling. Candidates are also required to identify safe working practices for power tools and tiling equipment. Assessment will be through a closed-book question paper and will be carried out under controlled supervised conditions.

#### Outcomes 2, 3 and 4

Product and performance evidence supplemented with an assessor observation checklist is required to show that the candidate has achieved all Outcomes to the standards specified in the Performance Criteria. Candidates will be observed to show that they can demonstrate the correct use of a cement mixer and an electrically powered tile cutting machine. Candidates will also be observed to show that they can clean both pieces of equipment correctly after use.

Summary of standards	
Item	Measurement of standard
Identify tools and equipment	Correct tools/equipment identified for given task
Cement mixer	Equipment is checked and used safely
Electric tile cutter	Equipment is checked and used safely
Paddle mixer	Equipment is checked and used safely
Risk assessment	Safety boots, hand protection, hard hats, hi-vis vests worn at all times. Eye and hand protection used where required.
Method statement	Working area kept clean at all times. Tools requisitioned and handled correctly at all times. Tools/equipment cleaned and stored safely at end of working day. Health and Safety applies at all times.

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

**Unit title:** Wall and Floor Tiling: Tiling Equipment and Power Tools

Assessment of this Unit should be carried out when the candidate has received sufficient training and is deemed ready to be assessed.

These Evidence Requirements will be met by the completion of the Training and Assessment Programme (TAP) Wall & Floor Tiling.

## National Unit specification: support notes

### Unit title: Wall and Floor Tiling: Tiling Equipment and Power Tools

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 Wall and Floor tiling at SCQF level 6, which is a mandatory component of the Modern Apprenticeship.

This Unit would 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. It should be delivered as part of a structured programme of training and orientated to the context of the candidates work and area of responsibility.

The successful completion of this Unit will provide candidates with the required underpinning knowledge and skills relating to identify tools and equipment used in wall and floor tiling. The successful completion of this Unit will also provide candidates with the underpinning knowledge and skill to correctly and safely use a cement mixer and electrically powered tile cutting machine.

The context of this Unit allows for a holistic integrated approach for other Units within the PDA in Wall and Floor Tiling. Therefore there are opportunities to integrate this Unit into these Units within the PDA in Wall and Floor Tiling: *Wall and Floor Tiling: Cement Rendering for Tile Work*, *Wall and Floor Tiling: Floor Screeding for Tile Work* and *Wall and Floor Tiling: Complex Cutting and Shaping of Tiles*.

Health and Safety and Sustainability are integral and key to the Construction Industry and so 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 legislation affecting the conservation of the environment and its relevance to this trade and to the construction industry in general. Attention should also be drawn to the dangers of not implementing this legislation.

### Guidance on learning and teaching approaches for this Unit

Learning and teaching for this Unit should be a combination of workshop and classroom learning. Candidates should be made aware of the different types of tools and equipment used in wall and floor tiling. It is recommended that the candidate should be given the opportunity to further develop their skills through visual aids, electronic presentations, reference books, classroom exercises and group discussions. The introduction of tools and equipment from a variety of manufacturers will enhance the candidate's knowledge of the tools and equipment available to the industry.

## National Unit specification: support notes (cont)

### Unit title: Wall and Floor Tiling: Tiling Equipment and Power Tools

Candidates should also be taught the safe use of cement mixers and electrically powered tile cutting machines. A great emphasis must be placed on health and safety. It is recommended that the candidate completes an induction checklist prior to using power tools and equipment and that an emphasis is placed on the correct voltage used in industry. This should ensure that the candidate acquires the safe working practices required for this Unit.

It is recommended that candidates practice their skills in a workshop environment with the relative underpinning knowledge taught both in the workshop and classroom.

Candidates will be required to wear appropriate Personal Protective Equipment (PPE) whilst carrying out the practical activities, keep a clean working area and adopt safe working practices throughout all practical activities.

It is recommended from a practical and safety point of view that candidates should work in pairs throughout this Unit.

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 Efficient Working Practices
- ◆ Conform to General Workplace Safety
- ◆ Move and Handle Resources
- ◆ Confirm Work Activities and Resources for the Work
- ◆ Develop and Maintain Good Working Relationships
- ◆ Confirm the Occupational Method of Work

### Guidance on approaches to assessment for this Unit

Centres are advised to use the wall and Floor Tiling Training and Assessment Programme (TAP) which has been developed centrally by the SQA. Any other instruments of assessment used must be comparable to the TAP and have been through prior verification.

Sections 2 and 7 of the Wall and Floor Tiling TAP provide detailed assessment material for this Unit. It is expected that candidates will be given as much practice as possible and should be deemed competent prior to being set the assessment tasks contained within the TAP.

#### Outcome 1

A suitable method of assessing underpinning knowledge of identifying tools and equipment and safe working practices would be through the use multiple-choice questions.

#### Outcomes 2, 3 and 4

An assessor observation checklist can be used to record evidence of the candidate's ability to use a cement mixer an electrically powered cutting machine and a paddle mixer correctly. The candidate must be provided with all the tools, materials and equipment to complete the practical tasks.

## National Unit specification: support notes (cont)

**Unit title:** Wall and Floor Tiling: Tiling Equipment and Power Tools

### 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

The Core Skill of *Problem Solving* could be developed to SCQF level 3. As candidates undertake this Unit they 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 candidates to develop *Working with Others* to SCQF level 4 in Outcome 2 as the safe use of a cement mixer may be carried out working in pairs. Candidates can agree responsibilities and provide support and information to each other during this assessment. After assessment, they should be encouraged to consider how effectively they supported each other.

Opportunities in Outcome 1 also arise for candidates to develop the Core Skill of *Information and Communication Technology (ICT)* to SCQF level 3 by researching the different types of power tools and equipment used in a wall and floor tiling context and the Health and Safety legislation affecting their area of work.

Candidates could have the opportunity to develop *Communication* to SCQF level 4 for the practical aspects of this Unit. As candidates complete practical tasks, they should be expected to communicate with others using the correct terminology, tone and style suited to the workplace.

### 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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