

## National Unit Specification: general information



**UNIT** Wall and Floor Tiling: Tiling Materials and Technology  
(SCQF level 6)

**CODE** F6NX 12

### SUMMARY

This Unit is suitable for candidates undertaking a Modern Apprenticeship in Wall and Floor Tiling. The Unit is designed to develop candidates ability to describe the processes used in the manufacture of wall and floor tiles and specify suitable locations for their use. This Unit is also designed to develop underpinning knowledge of adhesives, grouts and components used in wall and floor tiling and suitable locations for their use.

### OUTCOMES

- 1 Demonstrate knowledge and understanding of tile manufacture and application.
- 2 Demonstrate knowledge and understanding of adhesives and their application.
- 3 Demonstrate knowledge and understanding of grouts and their application.
- 4 Demonstrate knowledge and understanding of components for specialised locations.

### RECOMMENDED ENTRY

While entry to this Unit 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 Apprentices, which include being employed in the relevant craft industry.

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#### Administrative Information

**Superclass:** TG

**Publication date:** May 2009

**Source:** Scottish Qualifications Authority

**Version:** 01

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## **National Unit Specification: general information (cont)**

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### **CREDIT VALUE**

1 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.*

### **CORE SKILLS**

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

Opportunities for developing aspects of the following Core Skills are highlighted in Support Notes of this Unit:

- ◆ Problem Solving at SCQF level 4
- ◆ IT at SCQF level 4
- ◆ Communication at SCQF level 4

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

### **UNIT**      Wall and Floor Tiling: Tiling Materials and Technology (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 tile manufacture and application.

##### **Performance Criteria**

- (a) Describe the manufacture and suitable applications of dust pressed wall tiles.
- (b) Describe the manufacture and suitable applications of extruded floor tiles.
- (c) Describe the manufacture and suitable applications of porcelain tiles.
- (d) Describe the manufacture and suitable applications of vitrified mosaic tiles.

#### **OUTCOME 2**

Demonstrate knowledge and understanding of adhesives and their application.

##### **Performance Criteria**

- (a) Describe the correct circumstance and environment for the use of ready mixed acrylic based wall adhesive.
- (b) Describe the correct circumstance and environment for the use of cement-based adhesive.
- (c) Describe the correct circumstance and environment for the use of polymer-modified adhesives.
- (d) Describe the correct circumstance and environment for the use of two part adhesives.

#### **OUTCOME 3**

Demonstrate knowledge and understanding of grouts and their application.

##### **Performance Criteria**

- (a) Describe the correct circumstance and environment for the use of cement based grouts.
- (b) Describe the correct circumstance and environment for the use of epoxy resin grouts.

#### **OUTCOME 4**

Demonstrate knowledge and understanding of components for specialised locations.

##### **Performance Criteria**

- (a) Describe the correct circumstance and environment for the use of tanking systems for tile work.
- (b) Describe the correct circumstance and environment for the use of tile backer boards.
- (c) Describe the correct circumstance and environment for the use of under tile heating systems.

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

**UNIT** Wall and Floor Tiling: Tiling Materials and Technology  
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### EVIDENCE REQUIREMENTS FOR THIS UNIT

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

Written and/or oral evidence is required to show that the candidate has achieved the standards specified in the Performance Criteria in all Outcomes. Assessment of the underpinning knowledge of the manufacture and application of tiles should be carried out using an open-book question paper. This must be carried out under controlled supervised conditions.

<b>Item</b>	<b>Measurement of Standard</b>
<b>Tile manufacture and application</b>	
Manufacture and suitable applications of dust pressed wall tiles	Described correctly
Manufacture and suitable applications of extruded floor tiles	Described correctly
Manufacture and suitable applications of porcelain tiles	Described correctly
Manufacture and suitable applications of vitrified mosaic tiles	Described correctly
<b>Specify adhesive for application</b>	
Specific circumstance and environment for the use of ready mixed acrylic based wall adhesive	Described correctly
Specific circumstance and environment for the use of cement-based adhesive.	Described correctly
Specific locations and use of circumstance and environment for the use of polymer-modified adhesives	Described correctly
Specific circumstance and environment for the use of two part adhesives	Described correctly
<b>Specify grouts for application</b>	
Specific circumstance and environment for the use of cement based grouts	Described correctly
Specific circumstance and environment for the use of epoxy resin grouts	Described correctly
<b>Specify components for specialised locations</b>	
Specific circumstance and environment for the use of tanking systems for tile work	Described correctly
Specific circumstance and environment for the use of tile backer boards	Described correctly
Specific circumstance and environment for the use of under tile heating systems	Described correctly

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 Wall and Floor Tiling: Tiling Materials and Technology (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 (PDA) in Wall and Floor Tiling at SCQF level 6, which is a mandatory component of the Modern Apprenticeship in Wall and Floor Tiling.

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 describing the manufacturing processes and use of a variety of tiles used in the wall and floor tiling industry and skills to describe the specific location for use of a variety of adhesives and grouts. This Unit will also provide candidates with knowledge of components used in specialised locations, namely; tanking systems, tile backer boards and under tile heating systems.

The context of this Unit allows for a holistic integrated approach into other Units within the PDA in Wall and Floor Tiling. Therefore there are opportunities to integrate this Unit into *Wall and Floor Tiling: Fixing Wall Tiles Using Thin Set Adhesives* and *Wall and Floor Tiling: Fixing Floor Tiles Using Adhesives* as candidates will be able to acquire an underpinning knowledge of adhesives and grouts before using them in a practical context.

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.

## National Unit Specification: support notes (cont)

**UNIT**      Wall and Floor Tiling: Tiling Materials and Technology  
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### 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 manufacturing methods used for the variety of tiles listed in the Evidence Requirements for this Unit. A recommended teaching approach for this Unit would be a visit to a tile and adhesive manufacturing plant. The internet can also be used as a valuable source of information, though it is recommended that candidates only research tile, adhesive and grout manufacturers who manufacture to British standards. Candidates should record all obtained information electronically in a word document or on a spreadsheet. As this Unit is theory based, it is recommended that tutor demonstrations of the products and components take place. This approach will again enhance the underpinning knowledge for this Unit.

It is recommended that candidates work individually in all Outcomes.

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

### OPPORTUNITIES FOR CORE SKILL DEVELOPMENT

The Core Skill of *Problem Solving* could be developed to SCQF level 4 as candidates undertake this Unit. Candidates will need to take account of the various types of tiles, adhesives, grouts and components and specify appropriately. Individual discussions with assessors will enhance the evaluation of efficient working practices.

Opportunities in Outcomes 1, 2, 3 and 4 also arise for candidates to develop the Core Skill of *Information and Communication Technology* to SCQF 4 by researching and specifying use of various tiles, adhesives, grouts and components used in Wall and Floor Tiling. Also through the use of word processing and spreadsheet packages to record their researched information.

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

## **National Unit Specification: support notes (cont)**

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### **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 6 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.

### **Outcomes 1, 2, 3 and 4**

A suitable method of assessment would be through the use of short answer questions for all Outcomes and Performance Criteria in this Unit.

### **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 e-checklists. 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)*.

### **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)