



National Unit Specification: general information

UNIT Wall and Floor Tiling: Tiling Floors In-situ (SCQF level 6)

CODE F6NT 12

SUMMARY

This Unit is suitable for candidates undertaking a Modern Apprenticeship in Wall and Floor Tiling and will develop the candidate's craft skills in preparing surfaces and screeding using semi-dry sand and cement mortar. Candidates will be required to set out the screed floor and fix floor tiles using the insitu method of fixing floor tiles before grouting and finishing the tiled area. It is also designed to develop candidates underpinning knowledge and understanding of the materials, preparation, sequences of work and setting out methods used in tiling floors in-situ.

OUTCOMES

- 1 Demonstrate knowledge and understanding of the materials, preparation, setting out methods and sequences of work used in relation to tiling floors in-situ.
- 2 Prepare surface area.
- 3 Screed surface using semi-dry sand and cement mortar.
- 4 Set out and fix floor tiles in-situ.
- 5 Grout and finish tiled area.

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 Apprenticeship, which include being employed in the relevant craft industry. It is recommended that candidates complete *Wall and Floor Tiling: Floor Screeding for Tile Work*, *Wall and Floor Tiling: Setting Out for Tiling Applications* and *Wall and Floor Tiling: Fixing Floor Tiles Using Adhesives* at SCQF level 6 before attempting this Unit.

Administrative Information

Superclass: TG

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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
- ◆ Working with Others at SCQF level 4
- ◆ ICT at SCQF level 3
- ◆ Numeracy at SCQF level 3
- ◆ Communication at SCQF level 3

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 materials, preparation, setting out methods and sequences of work used in relation to tiling floors in-situ.

Performance Criteria

- (a) Identify materials used in tiling floors in-situ correctly.
- (b) Identify preparation methods correctly.
- (c) Identify setting out methods and sequences of work correctly.

OUTCOME 2

Prepare surface area.

Performance Criteria

- (a) Check surface for contamination and soundness correctly.
- (b) Control suction of surface area correctly.
- (c) Comply with current health and safety regulations in all activities.

OUTCOME 3

Screed surface using semi-dry sand and cement mortar.

Performance Criteria

- (a) Mark datum line correctly.
- (b) Mark datum stick correctly.
- (c) Position sand and cement dots and screeds correctly.
- (d) Apply sand and cement screed correctly.
- (e) Comply with current health and safety regulations in all activities.

OUTCOME 4

Set out and fix floor tiles in-situ.

Performance Criteria

- (a) Mark centre and square line accurately.
- (b) Manufacture staff stick accurately.
- (c) Mix cement slurry correctly.
- (d) Fix tiles in-situ correctly.
- (e) Comply with current health and safety regulations in all activities.

National Unit Specification: statement of standards (cont)

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OUTCOME 5

Grout and finish tiled area.

Performance Criteria

- (a) Mix grout correctly.
- (b) Apply grout correctly.
- (c) Remove grout residue correctly.
- (d) Check surface is free from grout holes and bloom.
- (e) Comply with current health and safety regulations in all activities.

National Unit Specification: statement of standards (cont)

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EVIDENCE REQUIREMENTS FOR THIS UNIT

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. Assessment of the candidates underpinning knowledge should be carried out using a closed-book question paper. This must be carried out under controlled supervised conditions.

Outcomes 2, 3, 4, and 5

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 prepare and screed the surface areas using sand and cement mortar. Candidates will also be observed to show that they can fix tiles using the in-situ method and grout and finish the tiled area. This must be carried out under controlled supervised conditions.

| Summary of Standards | |
|----------------------|---|
| Item | Measurement of standard |
| Surface | Prepared, checked for flatness and square |
| Screed floor | ±6 mm over 2 m |
| Set out floor area | As per drawing/instruction/balanced even cuts achieved |
| Cement slurry mixed | Lump-free consistency |
| Slurry applied | 100% even coverage |
| Tiles fixed | Fully bedded, joints ±1 mm of specified width |
| Tampering | Evenly beat into screed |
| Grout | Full, uniform neat appearance |
| Surface finish | Thoroughly cleaned on completion |
| Risk assessment | Safety boots, hand protection, hard hats, hi-vis vests worn at all times |
| Method statement | Working area kept clean at all times. Materials and tools requisitioned and handled correctly at all times. Tools cleaned and stored safely at end of working day. Health and Safety applies at all times. |

The screeded area should be a minimum length of 2 m on the diagonal surface plane.

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

National Unit Specification: statement of standards (cont)

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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 Floors In-situ (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 materials, and methods used to lay sand and cement screeds and fix tiles using the in-situ method of fixing.

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 within this Unit to integrate *Wall and Floor Tiling: Repair and Restoration* at SCQF level 6.

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 materials tools and equipment used in the in-situ method of tile fixing. The correct methods of preparing surfaces and floor screeding with semi-dry sand and cement mortar should be emphasised, with the basic principle of in-situ fixing explained as the candidate carries out practical activities in the workshop. The critical importance of the correct consistency of semi-dry sand and cement mortar and the procedures used in the in-situ method of tile fixing should also be emphasised during the practical activities.

It is recommended that candidates practice their skills in a workshop environment with the relative underpinning knowledge taught both in the workshop and classroom. The candidate should be given the opportunity to further develop their skills through visual aids, electronic presentations, reference books, classroom exercises and group discussions.

National Unit Specification: support notes (cont)

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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 that candidates work in pairs whilst marking datum and square lines in Outcomes 3 and 4. Candidates should work individually in other 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 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, particularly in Outcome 3 and 4 as the marking of datum and square lines 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* to SCQF level 3 by researching materials and components used in screeding floors and the Health and Safety legislation affecting their area of work.

Numeracy skills could be developed to SCQF level 3 through the calculation of material quantities required for screeding floors and the measurement used in the setting out and fixing processes.

Candidates could have the opportunity to develop *Communication* to SCQF level 3 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.

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.

Section 4 of the Wall and Floor Tiling TAP provides 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 way of assessing underpinning knowledge would be through the use of multiple choice questions.

Outcome 2, 3, 4 and 5

The candidate's ability to carry out these Outcomes should be assessed through practical tasks. An assessor observation checklist can be used to record evidence of the candidate's ability to prepare a surfaces area screed using semi-dry sand and cement mortar, set out and fix tiles insitu and grout and finish the tiled area. The candidate must be provided with all the tools, materials and equipment to complete the practical tasks.

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