



National Unit specification: general information

Unit title: Wall and Floor Tiling: Fixing Floor Tiles Using Adhesives

Unit code: H006 12

Superclass: TG

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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 for tiling and the gauging and mixing of adhesives. Candidates will be required to fix floor and cove tiles to given surfaces. This Unit requires the candidate to grout and finish the tiled area. It is also designed to develop candidate's underpinning knowledge and understanding of the preparation, setting out materials and equipment.

Outcomes

- 1 Demonstrate knowledge and understanding of preparation, setting out methods, materials and equipment in relation to fixing floor tiles.
- 2 Prepare and set out surfaces for tiling to given specification.
- 3 Select, gauge, mix and apply adhesives.
- 4 Tile a prepared surface.
- 5 Grout and finish the 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 Apprentices which include being employed in the relevant craft industry.

General information (cont)

Unit title: Wall and Floor Tiling: Fixing Floor Tiles Using Adhesives

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.*

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: Fixing Floor Tiles Using Adhesives

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 preparation, setting out methods, materials and equipment in relation to fixing floor tiles.

Performance Criteria

- (a) Identify preparation methods used in tiling floors.
- (b) Identify setting out methods used in setting out floors.
- (c) Identify materials and equipment used in floor tiling.

Outcome 2

Prepare and set out surfaces for tiling to give specification.

Performance Criteria

- (a) Check for contamination and soundness correctly.
- (b) Manufacture staff stick accurately.
- (c) Set out surface correctly.
- (d) Comply with current health and safety regulations in all activities.

Outcome 3

Select, gauge, mix and apply adhesives.

Performance Criteria

- (a) Select adhesive correctly.
- (b) Gauge and mix adhesive correctly.
- (c) Apply adhesive correctly.
- (d) Comply with current health and safety regulations in all activities.

Outcome 4

Tile a prepared surface.

Performance Criteria

- (a) Fix tiles correctly.
- (b) Fix tiles in the correct sequence.
- (c) Fix Tiles square.
- (c) Comply with current health and safety regulations in all activities.

National Unit specification: statement of standards (cont)

Unit title: Wall and Floor Tiling: Fixing Floor Tiles Using Adhesives

Outcome 5

Grout and finish the 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.

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 set out backgrounds; gauge, mix and apply adhesives; fix floor tiles to a prepared surface; and grout and finish the tiled area. Assessment should be conducted under controlled, supervised conditions.

National Unit specification: statement of standards (cont)

Unit title: Wall and Floor Tiling: Fixing Floor Tiles Using Adhesives

Summary of standards	
Item	Measurement of Standard
Surface area	Prepared, checked for flatness
Set out floor area	As per drawing/instruction/balanced cutting achieved
Adhesive selected and mixed	As per manufacturer's instruction
Adhesive applied and spread	Strong bond between background and tiles
Tiles fixed	Fully bedded, joints ± 1 mm of specified width
Cove tiles	Matching at joints and intersections if applicable
Grout	Full, uniform neat appearance
Surface finish	Thoroughly cleaned on completion
Working area	Clean at all times/existing wall tiled area cleaned
Tools and equipment	Cleaned and stored safely
Health and Safety	Complies at all times

Candidates should fix tiles to a square area measuring no less than 2 m over diagonal. Floor tiling scenarios must include;

- ◆ level flooring
- ◆ Falls to one side incorporating gully
- ◆ Falls to centre incorporating mitre cuts

Candidates should be introduced to a variety of floor tile types including large format, natural stone and high density.

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 and Floor Tiling.

National Unit specification: support notes

Unit title: Wall and Floor Tiling: Fixing Floor Tiles Using Adhesives

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 set out and tile floors using adhesives. Candidates will also be provided with the skills to grout and finish tiled areas in a variety of situations.

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* and *Wall and Floor Tiling: Setting Out for Tiling Applications*.

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 fixing floor tiles. The correct methods of preparing surfaces should be emphasised, with the basic principle of mixing and applying adhesives explained as the candidate prepares the surface and adhesives in the workshop. The critical importance of the correct procedures used in floor tiling should be emphasised during the practical activities.

National Unit specification: support notes (cont)

Unit title: Wall and Floor Tiling: Fixing Floor Tiles Using Adhesives

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. Candidates should be introduced to different material specification guides. 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 should work in pairs during Outcome 2 and must work individually to carry out all 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

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 continued within the TAP.

Outcome 1

Underpinning knowledge will be assessed through the use multiple-choice questions.

Outcomes 2, 3, 4 and 5

The candidates' ability to prepare surfaces and gauge and mix materials will be assessed through practical tasks. An assessor observation checklist should be used to record evidence of the candidates' ability to set out for tiling, fix tiles and grout and finish completed tile work. An assessor observation checklist should be used to record evidence of the candidates' ability to install components and grout and finish the tiled area. 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: Fixing Floor Tiles Using Adhesives

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 4. 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 during the setting out of floor areas. 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 materials and equipment used and the Health and Safety legislation affecting their area of work.

Numeracy skills could be developed to SCQF level 3 through the calculations used in setting out in Outcome 2 and the measurement of tile sizes in Outcomes 3 and 4.

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

History of changes to Unit

Version	Description of change	Date

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