



National Unit Specification: general information

UNIT Wall and Floor Tiling: Complex Cutting and Shaping of Tiles
(SCQF level 6)

CODE F6NS 12

SUMMARY

This Unit is suitable for candidates undertaking a Modern Apprenticeship in Wall and Floor Tiling. The Unit requires candidates to carry out complex cutting of tiles to geometric shapes. Candidates will then fix these patterns before grouting and finishing the completed tiled area. It is also designed to develop the candidate's underpinning knowledge and understanding of the preparation of backgrounds and surfaces and the setting out and fixing methods for complex tiling.

OUTCOMES

- 1 Prepare annotated workshop drawings.
- 2 Prepare backgrounds and surfaces for wall and floor tiling.
- 3 Set out, cut and fix circular tile work to wall.
- 4 Set out, cut and fix five-pointed star to wall.
- 5 Set out, cut and fix floor tiles to semi-circular Platt.
- 6 Grout and finish the tiled areas.

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. It is recommended that candidates complete *Wall and Floor Tiling: Setting Out for Tiling Applications*, *Wall and Floor Tiling: Fixing Wall Tiles Using Thin Set Adhesives* and *Wall and Floor Tiling: Fixing Floor Tiles Using Adhesives* at SCQF level 6.

Administrative Information

Superclass: TG

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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
- ◆ ICT at SCQF level 3
- ◆ Numeracy at SCQF level 4
- ◆ Communication at SCQF level 3

National Unit Specification: statement of standards

UNIT Wall and Floor Tiling: Complex Cutting and Shaping of Tiles (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

Prepare annotated workshop drawings.

Performance Criteria

- (a) Select appropriate equipment correctly.
- (b) Lay out drawing paper with title panel correctly.
- (c) Produced annotated workshop drawings of a circular design inserted in a tiled wall.
- (d) Produced annotated workshop drawings of a five-pointed star inserted in a tiled wall.
- (e) Produced annotated workshop drawings of a tiled semi-circular Platt.

OUTCOME 2

Prepare backgrounds and surfaces for wall and floor tiling.

Performance Criteria

- (a) Check backgrounds and surfaces for soundness correctly.
- (b) Check backgrounds and surfaces are free from friable material.
- (c) Comply with current health and safety regulations in all activities.

OUTCOME 3

Set out, cut and fix circular tile work to wall.

Performance Criteria

- (a) Position tiles on board correctly.
- (b) Draw circle on tiles correctly.
- (c) Cut circle correctly.
- (d) Fix circle to wall correctly.
- (e) Comply with current health and safety regulations in all activities.

National Unit Specification: statement of standards (cont)

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OUTCOME 4

Set out, cut and fix five-pointed star to wall.

Performance Criteria

- (a) Position tiles on board correctly
- (b) Draw five-pointed star on tiles correctly
- (c) Cut five-pointed star correctly
- (d) Fix five-pointed star to wall correctly
- (e) Comply with current health and safety regulations in all activities

OUTCOME 5

Set out, cut and fix floor tiles to semi-circular Platt.

Performance Criteria

- (a) Set out Platt correctly.
- (b) Strike lines accurately.
- (c) Cut tiles accurately.
- (d) Fix tiles correctly.
- (e) Comply with current health and safety regulations in all activities.

OUTCOME 6

Grout and finish the tiled areas.

Performance Criteria

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

National Unit Specification: statement of standards (cont)

UNIT Wall and Floor Tiling: Complex Cutting and Shaping of Tiles
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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 evidence is required to show that the candidate has achieved the standards specified in the Performance Criteria in Outcome 1. Assessment of the underpinning knowledge will be carried out with candidates producing annotated working drawings of a circular design insert in a tiled wall, a five pointed star design inserted in a tiled wall and a semi-circular tiled Platt. This must be carried out under controlled supervised conditions and to the stated standards.

Outcomes 2, 3, 4, 5 and 6

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 backgrounds; set out and fix a circular insert in a tiled wall; set out and fix a five pointed star insert in a tiled wall; set out and tile a semi-circular Platt; and grout all completed work to the standards stated. This must be carried out under controlled supervised conditions.

Summary of Standards	
Item	Measurement of standard
Background surface	Prepared, checked for flatness, plumb
Setting out	As per drawing, instruction
Tile batten	± 2 mm
Adhesive selected, mixed and applied	As per manufacturers instruction
Inscribed circle	Uniform joint ± 2 mm
Five-pointed star	Uniform joint ± 2 mm
Curved platt	Risers ± 2 mm
Grout	Full, uniform neat appearance
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.

Candidates must work individually in all Outcomes.

National Unit Specification: statement of standards (cont)

UNIT **Wall and Floor Tiling: Complex Cutting and Shaping of Tiles** (SCQF level 6)

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: Complex Cutting and Shaping of Tiles (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.

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 producing annotated working drawings and tiling a wall with a circular and five pointed star design on a background. It will also provide candidates with the underpinning knowledge and skills to tile a semi-circular Platt.

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*.

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 to set out and tile geometric shapes. It is recommended that candidates should complete the working drawings prior to entering a workshop environment as this will enhance the candidates underpinning knowledge of the required setting out procedures.

National Unit Specification: support notes (cont)

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The correct methods of preparing backgrounds and surfaces should be emphasised, with the basic geometric drawing principles of setting out explained in the workshop. The importance of the correct procedures used for cutting, fixing and grouting should 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.

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.

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.

Opportunities in Outcome 1 also arise for candidates to develop the Core Skill of *Information and Communication Technology* to SCQF 3 by researching the various geometric tile designs used in industry and the Health and Safety legislation affecting their area of work.

Numeracy skills could be developed to SCQF level 4 through the calculation of material quantities required for the tile designs

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.

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.

Outcome 1

Candidates underpinning knowledge will be assessed through the production of annotated working drawings of the designs to be fixed. This assessment must be carried out under controlled supervised conditions.

Outcomes 2, 3, 4, 5 and 6

The candidates ability to carry out complex cutting and shaping of wall and floor tiles will be assessed through a series of practical tasks. An assessor observation checklist can be used to record evidence of the candidate's ability in all practical Outcomes. 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