



National Unit Specification: general information

UNIT Wall and Floor Tiling: Construction Drawing for Tile work
(SCQF level 6)

CODE F6NM 12

SUMMARY

This Unit is suitable for candidates undertaking a Modern Apprenticeship in Wall and Floor Tiling. The Unit is designed to develop candidates' skills and understanding in the production of annotated scaled and working drawings in a wall and floor tiling context. Candidates will be introduced to increasingly complex methods of drawing before producing drawings for tile work.

OUTCOMES

- 1 Produce annotated scale drawings of plane figures.
- 2 Produce annotated scale drawings of three dimensional shapes in isometric projection.
- 3 Produce annotated section drawings in orthographic projection.
- 4 Produce working drawings for tile work.

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.

CREDIT VALUE

1 credit at SCQF level 6 (6 SCQF credit points at SCQF level 6*).

Administrative Information

Superclass: TG

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**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

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

Produce annotated scale drawings of plane figures.

Performance Criteria

- (a) Select appropriate equipment correctly.
- (b) Lay out drawing paper with title panel correctly.
- (c) Set out and bisect lines accurately.
- (d) Set out and bisect angles in triangles accurately.
- (e) Produce neat and clean drawings.

OUTCOME 2

Produce annotated scale drawings of three dimensional shapes in isometric projection.

Performance Criteria

- (a) Select appropriate equipment correctly.
- (b) Lay out drawing paper with title panel correctly.
- (c) Set out and draw accurately to scale three dimensional shapes in isometric projection.
- (d) Produce neat and clean drawings.

OUTCOME 3

Produce annotated section drawings in orthographic projection.

Performance Criteria

- (a) Select appropriate equipment correctly.
- (b) Lay out drawing paper with title panel correctly.
- (c) Set out and draw accurately to scale, section drawings in orthographic projection.
- (d) Produce neat and clean drawings.

OUTCOME 4

Produce working drawings for tile work.

Performance Criteria

- (a) Select appropriate equipment correctly.
- (b) Lay out drawing paper with title panel correctly.
- (c) Set out and draw accurate working drawings for tile work.
- (d) Produce neat and clean drawings.

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.

Product evidence in the form of completed drawings and performance evidence supplemented with an assessor observation checklist is required to show that the candidate has achieved the standards specified in the Performance Criteria in all Outcomes. Assessment of the underpinning knowledge should be carried out under controlled supervised conditions.

Summary of Standards	
Item	Measurement of Standard
Annotated scale drawings of plane figures	
Appropriate equipment	Selected correctly
Drawing paper with title panel	Set out correctly
Sets out and bisects lines and angle in triangles	Set out and bisected correctly
Finished drawing	Neat and clean
Annotated scale drawings of three-dimensional shapes in isometric projection	
Appropriate equipment	Selected correctly
Drawing paper with title panel	Set out correctly
Sets out and draws three dimensional shapes in isometric projection	Set out and drawn correctly
Appropriate equipment	Selected correctly
Produce annotated section drawings in orthographic projection	
Appropriate equipment	Selected correctly
Drawing paper with title panel	Set out correctly
Sets out and draws accurately to scale section drawings in orthographic projection	Set out and drawn correctly
Finished drawing	Neat and clean
Produce working drawings for tile work	
Appropriate equipment	Selected correctly
Drawing paper with title panel	Set out correctly
Working drawing	Drawn correctly
Finished drawing	Neat and clean

Candidates must work individually in all Outcomes.

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

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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. Centres may find opportunities to integrate aspects of this Unit with others in the Wall and Floor Tiling PDA eg Wall and Floor Tiling: Tiling to Staircase Walls and Wall and Floor Tiling: Setting Out for Tiling Applications.

The successful completion of this Unit will provide candidates with the required underpinning knowledge and skills relating to producing annotated scale drawings of plane figures, three-dimensional shapes in isometric projection, section drawings in orthographic projection and working drawings for tile work.

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 mainly classroom learning though candidates should be encouraged to use the underpinning knowledge from the geometry in this Unit in a practical context in the workshop.

Candidates should be made aware of the methods used to produce annotated scale drawings in orthographic and isometric projection. Candidates should be taught the correct methods of laying out drawing paper, bisecting lines and angles. It is recommended that candidates undertake drawings that relate to a wall and floor tiling context. An example of this could be a concrete floor with semi-dry sand and cement screed with floor tiles fixed in-situ. An annotated section drawing would help evidence the candidates underpinning knowledge of the correct sequences of tiling floors in-situ.

Where appropriate, opportunities should be taken throughout delivery of this Unit to meet the requirements of the generic Units of the Training and Assessment Programme including:

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- ◆ 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 they will need to take account of a range of factors in order to work efficiently and safely, such as the choice of appropriate drawing equipment and sustainability. Individual discussions with assessors will enhance the evaluation of efficient working practices.

Opportunities in all Outcomes also arise for candidates to develop the Core Skill of *Information and Communication Technology* to SCQF 3 by researching drawing equipment and various projection methods.

Numeracy skills could be developed to SCQF level 4 through accurate measurement involved in construction drawing for tile 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 3 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.

Outcomes 1, 2, 3 and 4

The candidates are required to produce annotated scale drawings of plane figures and of three-dimensional shapes in isometric projection. Candidates are further required to produce annotated scaled section drawings and scaled working drawings.

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 communications 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)*.

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CANDIDATES WITH DISABILITIES AND/OR ADDITIONAL SUPPORT NEEDS

The additional support needs of individual candidates should be taken into account when planning learning experiences, selecting assessment instruments, or considering alternative Outcomes for Units. Further advice can be found in the SQA document *Guidance on Assessment Arrangements for Candidates with Disabilities and/or Additional Support Needs* (www.sqa.org.uk).