National Unit Specification: general information

UNIT Wall and Floor Tiling: Floor Screeding for Tile Work (SCQF level 6)

CODE F6NN 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 the preparation of surface areas to receive sand and cement screed. Candidates will be required to lay sand and cement screed from datum's, level and to falls. Candidates will also be required to lay levelling compounds to surface areas. The completed surface should be suitable to receive floor tiles. It is also designed to develop candidate's underpinning knowledge and understanding of the materials, preparation method and sequences of work used in floor.

OUTCOMES

1 Demonstrate knowledge and understanding of the materials, preparation methods and sequences of work used in relation to floor screeding.
2 Gauge and mix materials.
3 Prepare surface to receive sand and cement screed.
4 Lay sand and cement screed level from datum's.
5 Lay sand and cement screeds to falls.
6 Mix and apply levelling compound.

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.

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
- Working with Others at SCQF level 4
- IT at SCQF level 3
- Numeracy at SCQF level 4
- Communication 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

Demonstrate knowledge and understanding of the materials, preparation methods and sequences of work used in relation to floor screeding.

Performance Criteria

(a) Identify materials used in floor screeding
(b) Identify preparation methods used in floor screeding
(c) Identify sequences of work used in floor screeding

OUTCOME 2

Gauge and mix materials.

Performance Criteria

(a) Identify and select the correct materials
(b) Gauge and Mix materials correctly by hand
(c) Comply with current health and safety regulations in all activities

OUTCOME 3

Prepare surface to receive sand and cement screed.

Performance Criteria

(a) Check surface for contamination and soundness correctly.
(b) Check surface is free from friable material correctly.
(c) Control suction correctly.
(d) Comply with current health and safety regulations in all activities.

OUTCOME 4

Lay sand and cement screed level from datum's.

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.

National Unit Specification: statement of standards (cont)

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OUTCOME 5

Lay sand and cement screed to falls.

Performance Criteria

(a) Mark datum line correctly.
(b) Mark datum stick for falls 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 6

Mix and apply levelling compound.

Performance Criteria

(a) Mix levelling compound correctly.
(b) Apply levelling compound to surface correctly.
(c) Check levelling compound is correctly smoothed to receive tiles.
(d) Comply with current health and safety regulations in all activities.

National Unit Specification: statement of standards

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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 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, 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 surfaces, mix and gauge materials and lay sand and cement screeds level and to falls. Candidates will also be observed to show that they can mix and apply levelling compounds. The completed surfaces must be suitable for receiving tiles. These assessments must be carried out under controlled supervised conditions.

Summary of Standards	
Item	**Measurement of standards**
Concrete floor prepared	Prepared and ready to receive screed
Datum line	±2mm over 2m
Datum stick marked	±1mm
Dots formed	±2mm in correct position
Infill between dots	Good compaction (thumb test)
Screed ruled off	Ruled off evenly
Screed floated	Even surface obtained
Surface finish	±6mm over 2m
levelling compound	Even surface obtained
Working area	Clean at all times
Tools/equipment	Cleaned and stored safely
Health and Safety	Complies at all times

The screeded area should be a minimum length of 2m on the diagonal surface plane. The levelling compound must cover an area no less than $3m^2$

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 me met by the completion of the Training and Assessment Programme (TAP) *Wall & Floor Tiling.*

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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 tilling 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 materials, and methods used to prepare and screed surface areas.

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 aspects of *Wall and Floor Tiling: Repair and Restoration.*

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 floor screeding. The correct methods of gauging and mixing sand and cement screed by hand should be emphasised, with the basic principle of suction control explained as the candidate prepares the surface in the workshop. The critical importance of the correct procedures and sequences of work used in floor screeding 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. 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 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

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It is recommended that candidates work in pairs whilst marking datum lines and mixing materials in Outcome 2. Candidates must work individually in 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

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 the Core Skill of *Working with Others* to SCQF level 4, particularly in Outcome 2 as the gauging and mixing of materials and marking datum's 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 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 gauging and mixing in Outcomes 2.

Candidates could have the opportunity to develop the Core Skill of *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.

National Unit Specification: support notes

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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 2 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 method of assessing underpinning knowledge and understanding of the materials, preparation methods and sequences of work would be through the use of multiple choice questions.

Outcomes 2, 3, 4, 5 and 6

The candidates' ability to mix and gauge appropriate materials; prepare surfaces; screed floors level and to falls; and mix and apply levelling compound will be assessed through a series of practical tasks. Assessor observation checklists should be used to record evidence of the candidates' ability to meet the standard. 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 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).*

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)**.