



## National Unit Specification: general information

**UNIT** Wall and Floor Tiling: Cement Rendering for Tile Work (SCQF level 6)

**CODE** F6NK 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 applying cement render in preparation for tile work. The Unit requires candidates to gauge and mix materials by hand and mechanical means. Candidates will be required to prepare backgrounds, apply scratch, screeds and straightening coats to a prepared background. The background should be when completed, suitable for receiving wall tiles. The Unit is also designed to develop candidates underpinning knowledge and understanding of materials, sequences of work and terminology used in cement rendering.

### OUTCOMES

- 1 Demonstrate knowledge and understanding of the materials, preparation methods and sequences of work used in relation to cement rendering.
- 2 Prepare background to receive cement render.
- 3 Gauge and mix materials.
- 4 Apply scratch coat, screeds and straightening finishing coat.
- 5 Line through sand and cement screeds.

### 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.

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#### Administrative Information

**Superclass:** TG

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## **National Unit Specification: general information (cont)**

**UNIT**        Wall and Floor Tiling: Cement Rendering for Tile Work (SCQF level 6)

### **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 4

## **National Unit Specification: statement of standards**

### **UNIT**      Wall and Floor Tiling: Cement Rendering for Tile Work (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**

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

##### **Performance Criteria**

- (a) Identify materials used in cement rendering.
- (b) Identify preparation methods used in cement rendering.
- (c) Identify sequences of work used in cement rendering.

#### **OUTCOME 2**

Prepare background to receive cement render.

##### **Performance Criteria**

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

#### **OUTCOME 3**

Gauge and mix materials.

##### **Performance Criteria**

- (a) Identify and select the correct materials.
- (b) Gauge and mix materials correctly by hand.
- (c) Gauge and mix materials correctly by mechanical means.
- (d) Comply with current health and safety regulations in all activities.

#### **OUTCOME 4**

Apply scratch coat, screeds and straightening finishing coat.

##### **Performance Criteria**

- (a) Apply scratch coat evenly to background.
- (b) Form screeds in correct location.
- (c) Apply cement render and rule off correctly.
- (d) Apply float finish cement render correctly.
- (e) Comply with current health and safety regulations in all activities.

## National Unit Specification: statement of standards (cont)

**UNIT** Wall and Floor Tiling: Cement Rendering for Tile Work (SCQF level 6)

### OUTCOME 5

Line through sand and cement screeds.

#### Performance Criteria

- (a) Check background preparation is carried out.
- (b) Apply scratch coat evenly to background.
- (c) Line through screeds correctly.
- (d) 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 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 backgrounds; gauge and mix materials; apply scratch and finishing coats of cement render; apply cement render to internal and external corners; and apply the lining through method off straightening walls. The completed backgrounds must be suitable for receiving tiles. Assessment should be conducted under controlled, supervised conditions.

Summary of standards	
Item	Measurement of standard
Background preparation	Free from loose and friable material
'Key'	Sufficient 'key' obtained
Scratch coat	8mm thickness
Depth of scratch	Approximately 5mm
Screeds	±6mm plumb, straight and flat
Screed width	60mm-80mm
Straightening coat	±6mm plumb, straight and flat
Finished surface	Suitable to receive tiles ±6mm
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.

## **National Unit Specification: statement of standards (cont)**

### **UNIT**      Wall and Floor Tiling: Cement Rendering for Tile Work (SCQF level 6)

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

Candidates must work in pairs whilst mixing materials and lining through backgrounds in Outcomes 2 and 5. Candidates must work individually in all other 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

### UNIT Wall and Floor Tiling: Cement Rendering for Tile Work (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 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 materials, and methods used to prepare and cement render backgrounds.

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 to integrate aspects of this Unit with *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 cement rendering.

The correct methods of gauging and mixing cement render both by hand and mechanical means should be emphasised, with the basic principle of suction control explained as the candidate prepares the background in the workshop.

The critical importance of the correct procedures and sequences of work used in cement rendering 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.

## National Unit Specification: support notes (cont)

### UNIT Wall and Floor Tiling: Cement Rendering for Tile Work (SCQF level 6)

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 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 Outcomes 2 and 5 as the gauging and mixing of materials and the lining through of backgrounds should be carried out working in pairs, as part of learning and teaching. 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 3 through the calculation of material quantities required for gauging and mixing in Outcomes 2.

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.

### 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

An appropriate method of assessing the underpinning knowledge would be through the use of multiple choice questions.

## **National Unit Specification: support notes (cont)**

**UNIT**      Wall and Floor Tiling: Cement Rendering for Tile Work (SCQF level 6)

### **Outcomes 2, 3, 4 and 5**

Candidates should be set a series of practical tasks. An assessor observation checklist can be used to record evidence of the candidates' ability to prepare a background, mix and gauge appropriate materials, apply a scratch coat; form and line through screeds and cement render a background.

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)*.