



National Unit specification

General information

Unit title: Wall and Floor Tiling: Basic Cement Work (SCQF level 5)

Unit code: F511 11

Superclass: TG

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Unit purpose

This Unit introduces learners to cement work in a wall and floor tiling context. The Unit requires the learner to select suitable tools and equipment to prepare backgrounds and surface areas to receive cement render, semi-dry sand and cement screed. Learners will be required to apply cement render to a prepared background and lay semi-dry sand and cement screed to a prepared surface area. When completed the areas should be suitable for receiving wall and floor tiles. Learners will be required to demonstrate their knowledge and understanding of work methods and terminology used in cement work for wall and floor tiling. Completion of this Unit may provide further progression in the Construction Craft industry. This Unit is suitable for learners who have little or no experience of wall and floor tiling.

Outcomes

On successful completion of the Unit the learner will be able to:

- 1 Demonstrate a knowledge and understanding of the preparation methods, terminology and sequences of work in relation to cement work.
- 2 Select the correct tools and equipment and prepare the background to receive cement render.
- 3 Apply cement render to a prepared background.
- 4 Select the correct tools and equipment and prepare the surface area to receive a semi-dry sand and cement screed.
- 5 Lay a sand and cement screed to a prepared surface area.

National Unit specification: General information (cont)

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Credit points and level

1 National Unit credit at SCQF level 5: (6 SCQF credit points at SCQF level 5)

Recommended entry to the Unit

Entry to this Unit is at the discretion of the centre.

Core Skills

Opportunities to develop aspects of Core Skills are highlighted in the Support Notes for this Unit specification.

Achievement of this unit gives automatic certification of the following Core Skills component:

Complete Core Skill	None
Core Skill component	Critical Thinking at SCQF level 4 Planning and Organising at SCQF level 4

Context for delivery

If this Unit is delivered as part of a Group Award, it is recommended that it should be taught and assessed within the subject area of the Group Award to which it contributes.

Equality and inclusion

This Unit specification has been designed to ensure that there are no unnecessary barriers to learning or assessment. The individual needs of learners should be taken into account when planning learning experiences, selecting assessment methods or considering alternative evidence.

Further advice can be found on our website www.sqa.org.uk/assessmentarrangements.

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 preparation, terminology, sequences of work in relation to cement work.

Performance Criteria

- (a) Explain preparation techniques used in cement work correctly.
- (b) Explain terminology use in cement work correctly.
- (c) Explain sequences of work used in cement work correctly.

Outcome 2

Select the correct tools and equipment and prepare the background to receive cement render.

Performance Criteria

- (a) Identify and select the correct tools and equipment for the given task.
- (b) Check tools and equipment are undamaged prior to use.
- (c) Prepare the background correctly to receive cement render.
- (d) Clean and store tools safely after use.

Outcome 3

Apply cement render to a prepared background.

Performance Criteria

- (a) Apply the scratch coat evenly to the background.
- (b) Form screeds in the correct location.
- (c) Apply cement render and rule off correctly.
- (d) Float finish the cement render to receive wall tiles.

Outcome 4

Select the correct tools and equipment and prepare the surface area to receive a semi-dry sand and cement screed.

Performance Criteria

- (a) Identify and select the correct tools and equipment for the given task.
- (b) Check tools and equipment are undamaged prior to use.
- (c) Prepare the surface area to receive a semi-dry sand and cement screed.
- (d) Clean and store tools safely after use.

National Unit specification: Statement of standards (cont)

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Outcome 5

Lay a sand and cement screed to a prepared surface area.

Performance Criteria

- (a) Dampen surface area sufficiently to receive semi-dry sand and cement screed.
- (b) Form screeds in the correct location.
- (c) Lay the screed and rule off correctly.
- (d) Float finish the screed to receive floor tiles.

Evidence Requirements for this Unit

Learners must adhere to relevant Health and Safety regulations and legislation relating both to working practices within the construction environment, as well as those specific to any practical task they are requested to carry out (such as emphasising the importance of selecting and using the correct PPE at all times).

Evidence is required to demonstrate that learners have achieved all Outcomes and Performance Criteria.

Written and/or recorded oral evidence is required to demonstrate that the learner has achieved Outcome 1 to the standard specified in the Performance Criteria. Learners will be required to complete an assessment to demonstrate their knowledge and understanding of preparation methods, terminology and sequences of work used in cement work. This assessment should be conducted under controlled, supervised, closed-book conditions.

Performance Evidence supported by a signed and completed assessor observation checklist is required to demonstrate that the learner has achieved Outcomes 2, 3, 4 and 5 to the standard specified in the Performance Criteria.

Learners will be provided with all of the tools, materials and equipment to complete two practical tasks; cement rendering and floor screeding.

Learners are required to demonstrate that they are able to:

Outcome 2 and 3: Cement Rendering

- ◆ identify and select the correct tools and equipment
- ◆ check that the tools and equipment are undamaged and suitable prior to use
- ◆ prepare the background correctly to receive cement render
- ◆ apply the scratch coat correctly
- ◆ apply the screeds correctly (plumb $\pm 8\text{mm}$)
- ◆ apply the screed mix correctly between screeds ($\pm 8\text{mm}$)
- ◆ apply a float finish suitable for receiving tiles ($\pm 8\text{mm}$)
- ◆ clean and store tools safely after use
- ◆ comply with health and safety during all activities

National Unit specification: Statement of standards (cont)

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Outcome 4 and 5: Floor Screeding

- ◆ identify and select the correct tools and equipment
- ◆ check that the tools and equipment are undamaged and suitable prior to use
- ◆ prepare surface area correctly to receive sand and cement screed
- ◆ apply the screeds correctly (level $\pm 8\text{mm}$)
- ◆ apply the screed mix correctly between screeds (level $\pm 8\text{mm}$)
- ◆ apply a float finish suitable for receiving tiles ($\pm 8\text{mm}$)
- ◆ clean and store tools safely after use
- ◆ comply with Health and Safety during all activities

Learners must work individually when completing all practical tasks. A signed and completed assessor observation checklist must be retained as evidence of learner achievement.

Assessment should be delivered at an appropriate time when learners have developed the necessary knowledge and skills to meet the requirements of all Outcomes and Performance Criteria contained in this Unit. The learner should be given enough time to complete the practical assessment to the given specifications.

The Assessment Support Pack for this Unit provides sample assessment material. Centres wishing to develop their own assessments should refer to the Assessment Support Pack to ensure a comparable standard.



National Unit Support Notes

Unit title: Wall and Floor Tiling: Basic Cement Work (SCQF level 5)

Unit Support Notes are offered as guidance and 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 an optional Unit in the National Progression Award in Construction at SCQF level 5 and can also be delivered as a free-standing Unit.

The content and context of this Unit is aimed at learners who are interested in pursuing a career in the craft of wall and floor tiling. Learners will be required to gain an understanding of the correct methods of preparing various backgrounds and surface areas for cement rendering and floor screeding. Learners will also gain practical experience when cement rendering and floor screeding to given tolerances. It is important that learners are taught the reasons for carrying out tasks in a particular manner and the reasons for using specified tools, materials and equipment. This will underpin the learner's practical skills

This Unit is intended to introduce the learner to an interesting experience in cement work used in Wall and Floor tiling

Learner will be required to gain an understanding of construction work safety practices, the correct use of Personal Protective Equipment (PPE), manual handling methods and the correct use of tools.

It is important that learners are introduced to and taught good practice that should be adopted within both workshop and work site environments. This includes keeping the working area clean, behaving in the correct manner and cleaning and storing tools safely after use.

All workshop and industrial practices require to be established at this stage of the learners' development. Safe working practices including the wearing of the appropriate PPE should be implemented at all times.

National Unit Support Notes (cont)

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Guidance on approaches to delivery of this Unit

Learners should be made aware of the basic procedures used in cement work for wall and floor tiling and the correct selection and checks for damage of tools and equipment. The preparations of different wall and floor areas and the correct terminology used in floor tiling must be taught. An emphasis should be placed on careful control of suction and the correct mixing of materials.

The teaching should underline the importance of the correct practical sequences of cement rendering and screeding using semi-dry sand and cement mortar

Learners will be required to wear appropriate PPE whilst carrying out the practical activities, keep a clean working area and adopt safe working practices at all times.

The learning environment for this Unit should be a combination of classroom and workshop based learning. The knowledge element of this Unit could be taught in a classroom environment and put into practice in the workshop in conjunction with practical based Unit delivery.

Guidance on approaches to assessment of this Unit

Centres may use the method of assessment which they consider to be most appropriate but are encouraged to use the Training Assessment Programme (TAP) developed centrally by SQA. It is expected that learners will have to demonstrate current knowledge and understanding of safe working practice and risk assessment methods, etc prior to being set the assessment tasks.

Knowledge and Understanding of the processes involved in *Wall and Floor Tiling: Basic Cement Work (SVCQF level 5)* should be assessed before any practical assignments are carried out by learners. This will include assessment of a learner's ability to prepare the work area for laying modular pavement.

Practical assignments should be carried out under supervised conditions and recorded in an assessor observation/operational checklist. Assessments should confirm that a learner has the ability to safely lay modular pavement using designated machinery or equipment correctly and safely, whilst adhering to current statutory Health and Safety regulations and legislation.

Adherence to current statutory working regulations and Health and Safety procedures will be observed during the practical exercise carried out by the learner towards all Outcomes.

Detailed assessment material for this Unit will be found in the relevant Training and Assessment Programme (TAP). Centres may use the instruments of assessment which they consider to be most appropriate but are advised to use the TAP which has been developed centrally by SQA. Any other instruments of assessment used must be comparable to the TAP and have been prior verified.

National Unit Support Notes (cont)

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Opportunities for 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 learner evidence and that conditions of assessment as specified in the Evidence Requirements are met, regardless of the mode of gathering evidence. The most up-to-date guidance on the use of e-assessment to support SQA's qualifications is available at www.sqa.org.uk/e-assessment.

Opportunities for developing Core and other essential skills

Components of the Core Skill of *Problem Solving*, such as Planning, Organising and Critical Thinking will be developed as learners undertake this Unit. Learners will need to plan the task to be completed, organise their time and materials and take account of a range of factors in order to work efficiently and safely.

Numeracy skills will be enhanced through the calculation of materials required for rendering and screeding.

Although *Communication* skills are not formally assessed, learners will have the opportunity to develop Written and/or Oral Communication skills for the assessment for the knowledge part of the Unit. As learners complete practical tasks, they should be expected to communicate with others using the correct terminology, tone and style.

This Unit has the Critical Thinking and Planning and Organising components of Problem Solving embedded in it. This means that when learners achieve the Unit, their Core Skills profile will also be updated to show they have achieved Critical Thinking at SCQF level 4 and Planning and Organising at SCQF level 4.

History of changes to Unit

Version	Description of change	Date
02	Clarification of Standards and updated to new Unit Specification Standard. Core Skills Components Critical Thinking and Planning and Organising at SCQF level 4 embedded	29/04/16

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General information for learners

Unit title: Wall and Floor Tiling: Basic Cement Work (SCQF level 5)

This section will help you decide whether this is the Unit for you by explaining what the Unit is about, what you should know or be able to do before you start, what you will need to do during the Unit and opportunities for further learning and employment.

This Unit will introduce you to cement work in a wall and floor tiling context. You will learn how to select suitable tools and equipment to prepare backgrounds and surface areas to receive cement render semi-dry sand and cement screed.

You will also develop the skills required to apply cement render to a prepared background and lay semi-dry sand and cement screed to a prepared surface area.

You will also develop your knowledge and understanding of work methods and terminology used in Wall and Floor Tiling. The Unit may provide further progression in the Construction Craft industry.

You will also be provided with the knowledge to allow you to appreciate the reasons for carrying out the practical work in the manner directed and the reasons for using specific tools, materials, components and equipment.

Health and Safety and Sustainability are integral and key to the Construction Industry therefore throughout the Unit emphasis will be placed where appropriate on the application of Health and Safety and Sustainability. Safety working practices will be looked at in accordance with current safety codes of practice and regulations.

There will be a series of training exercises followed by some practical task based assessment and multi choice knowledge assessment. Completion of the Unit will provide you with the basic skills necessary to enable you to progress to more complex aspects of Carpentry and Joinery which in turn will further develop your skills and knowledge.

The elements of the Core Skill of *Problem Solving*, such as Planning and Organising and Critical Thinking will be developed and enhanced as you undertake this Unit. You 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.

There are opportunities to develop co-operative working skills. You will also be required to comply fully with health and safety requirements which gives you opportunities to develop awareness of the safety of others.

Opportunities also arise to develop the Core Skill of *Information and Communication Technology (ICT)* by researching Health and Safety.

Numeracy skills will be naturally enhanced through the practical use of calculation and measuring scales and although *Communication* skills are not formally assessed, as you complete practical tasks, you may be expected to communicate with others using the correct terminology, tone and style suited to the workplace.

This Unit has the Critical Thinking and Planning and Organising components of Problem Solving embedded in it. This means that when you achieve the Unit, your Core Skills profile will also be updated to show you have achieved Critical Thinking at SCQF level 4 and Planning and Organising at SCQF level 4.