



## National Unit specification

### General information

**Unit title:** Plain Tile Roofing Skills (SCQF level 5)

**Unit code:** F1L5 11

**Superclass:** TG

**Publication date:** April 2016

**Source:** Scottish Qualifications Authority

**Version:** 02

### Unit purpose

This Unit is suitable for learners who have limited knowledge of roofing practices. The Unit require the learner to set out elementary roofing projects, apply craft skills using plain roof tiles. Learners who achieve this Unit should feel confident in undertaking basic roof tiling skills and in progressing to Units based on other pitched roofing disciplines where competences gained in this Unit will be further developed and applied.

### Outcomes

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

- 1 Identify the terminology and apply calculations used in plain roof tiling.
- 2 Prepare a roof surface prior to tiling.
- 3 Fix plain tiles to a pitched roof surface including an opening.
- 4 Form a wet verge and bed ridge tiles.

### 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

Whilst entry is at the discretion of the centre, learners would normally be expected to have attained the following, or equivalent:

- ◆ *Single Lap Roof Tiling: An Introduction* (SCQF level 4)
- ◆ *Plain Roof Tiling: An Introduction* (SCQF level 5)

## National Unit specification: General information (cont)

**Unit title:** Plain Tile Roofing Skills (SCQF level 5)

### 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 5 Planning and Organising at SCQF level 5

### 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](http://www.sqa.org.uk/assessmentarrangements).

## **National Unit specification: Statement of standards**

### **Unit title: Plain Tile Roofing Skills (SCQF level 5)**

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**

Identify the terminology and apply calculations used in plain roof tiling.

##### **Performance Criteria**

- (a) Types of Plain Roof Tiles are identified correctly.
- (b) Terms associated with Plain Roof Tiles are applied correctly.
- (c) Simple calculations associated with Plain Roof Tiles are applied correctly.

#### **Outcome 2**

Prepare a roof surface prior to tiling.

##### **Performance Criteria**

- (a) Underlay is fixed to the roof surface correctly.
- (b) Counter battens and tile battens are fixed correctly.
- (c) Gauge for tiling is determined correctly.
- (d) Tiling battens are fixed to gauge correctly.
- (e) Tiling battens are cut to overhang at verge correctly.
- (f) Work methods and activities comply with current health and safety regulations.

#### **Outcome 3**

Fix plain tiles to a pitched roof surface including an opening.

##### **Performance Criteria**

- (a) Position underclock correctly.
- (b) The eaves course is fixed to the roof surface correctly.
- (c) The main roof surface is tiled, including an opening correctly.
- (d) Work methods and activities comply with current health and safety regulations.

#### **Outcome 4**

Form a wet verge and bed ridge tiles.

##### **Performance Criteria**

- (a) Bed and point plain tiles to verge correctly.
- (b) Bed and point ridge tiles correctly.
- (c) Work methods and activities comply with current health and safety regulations.

## **National Unit specification: Statement of standards (cont)**

**Unit title:** Plain Tile Roofing Skills (SCQF level 5)

### **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 oral evidence is required which demonstrates that the learner has achieved Outcome 1 to the standards specified in the Outcome and Performance Criteria. The evidence for this Outcome should be obtained under controlled, supervised conditions. The assessment will be closed-book and should last no more than 45 minutes.

Performance evidence supplemented with an assessor observation checklist/record should be used to show that the learner has achieved Outcomes 2, 3 and 4 to the standard specified in the Outcomes and Performance Criteria. Each learner will be observed to show that they can achieve the following throughout the delivery of the Unit:

- ◆ prepare a pitched roof surface prior to fixing plain tiles
- ◆ fix plain tiles to a pitched roof
- ◆ lay and fix double lap tiles including wet verge and ridge tiles to a pitched roof

Assessment of this Unit should be completed over a period of time and evidence should be gathered at appropriate intervals



## National Unit Support Notes

**Unit title:** Plain Tile Roofing Skills (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 and can also be delivered as a freestanding Unit.

This Unit is designed to introduce the learners to skills associated with plain tiles. It includes planning, organising, setting out and completing introductory projects using plain roof tiles. The learner will normally work as part of a team in order to complete the project. Effective participation with others forms an important aspect of this Unit.

Prescriptive practical models are not outlined within the Unit Specification in order to allow centres to develop projects suitable to their particular situation.

It is expected that learners will have little experience of roof work prior to this Unit.

#### Outcome 1

The learner is required to demonstrate knowledge gained during the practical activities. This may be enhanced by activities in a classroom situation.

The knowledge gained through this Outcome should include the identification of types of plain roof tiles, an understanding of the terminology used and calculations associated with plain roof tiling.

#### Outcome 2

The learner is required to prepare a roof surface prior to fixing plain tiles, while working in an organised and safe manner.

Centres should take the opportunity to explain possible defects and demonstrating how to check sarking boards (or equivalent) for defects (loose, split, dry/wet rot), the removal of all protruding nails and making any necessary repairs.

Successful achievement of this Outcome will be through evidence that the learner can:

- ◆ cover the roof surface with roofing felt (or other simulated material) to stated tolerances
- ◆ fix counter battens and tiling battens to the roof surface in accordance with good practice

## National Unit Support Notes (cont)

**Unit title:** Plain Tile Roofing Skills (SCQF level 5)

### Outcome 3

The learner is required to fix plain tiles to a pitched roof surface, to include opening while working in an organised and safe manner.

Successful achievement of this Outcome will be through evidence that the learner can:

- ◆ position underclock correctly
- ◆ fix tiles to a pitched roof surface
- ◆ tile correctly around opening

### Outcome 4

The learner is required to bed and point tiles at verge and bed & point ridge tiles, while working in an organised and safe manner.

Successful achievement of this Outcome will be through evidence that the learner can:

- ◆ bed and point plain tiles at verge
- ◆ bed and point ridge tiles

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 should be looked at in accordance with current safety codes of practice and regulations. Sustainability should include reference to criteria affecting sustainability, impact of not implementing sustainability on the environment and the legislation promoting sustainability

## Guidance on approaches to delivery of this Unit

Outcome 1 can be integrated into the workshop situation during the practical activities where instruction and discussion methods could be used. Alternatively this may be better achieved and learned as underpinning knowledge in a classroom situation.

Outcomes 2, 3 and 4 are practical activities and as such form the basis of the practical projects, which should be completed on a simulated roof structure, of such a size to allow realistic approaches to plain tiling. It is recommended that the learners should be encouraged to work in pairs or small groups in order to simulate a 'real' roofing project. The projects will be deemed to be completed by the learners when the appropriate standards are achieved. As these Outcomes are of a practical nature appropriate safe working practices should be encouraged and the relevant health and safety regulations must be complied with at all times in order to achieve the standards required to achieve the Outcomes.

## National Unit Support Notes (cont)

**Unit title:** Plain Tile Roofing Skills (SCQF level 5)

### 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 *Plain Tile Roofing Skills (SCQF 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.

### 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](http://www.sqa.org.uk/e-assessment).

### Opportunities for developing Core and other essential skills

The elements of the Core Skill of *Problem Solving*, such as Planning and Organising and Critical Thinking will be developed and enhanced as learners undertake the Unit. Learners 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, where learners agree responsibilities and provide support and information to others during assessment.

## National Unit Support Notes (cont)

**Unit title:** Plain Tile Roofing Skills (SCQF level 5)

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

*Numeracy* skills will be naturally enhanced through the interpretation of information from 3 dimensional working drawings and the practical use of calculation and measuring scales.

Although *Communication* skills are not formally assessed, learners will have the opportunity to develop Written and/or Oral Communication skills

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 5 and Planning and Organising at SCQF level 5.



## 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 5 embedded	29/04/16

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## General information for learners

### Unit title: Plain Tile Roofing Skills (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 is designed to introduce you to skills required by craft persons working in the construction industry as roofing slaters and tilers. The Unit will focus on using a basic range of tools, materials, and equipment common to domestic properties and developing skills to fix and secure plain roofing tiles.

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 roof slating and tiling 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, where you will agree responsibilities and provide support and information to others during assessment.

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

*Numeracy* skills will be naturally enhanced through the interpretation of information from 3 dimensional working drawings and the practical use of calculation and measuring scales.

Although *Communication* skills are not formally assessed, you will have the opportunity to develop Written and/or Oral Communication skills

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 5 and Planning and Organising at SCQF level 5.