



## Higher National Unit specification

### General information for centres

**Unit title:** Roofing: Ornamental and Feature Slating Work

**Unit code:** F8N4 34

**Unit purpose:** This Unit is designed to enable candidates to develop knowledge, understanding and skills of concepts and elements used in ornamental slating for roofing. The Unit will allow candidates to enhance their advanced slating skills, which covers ornamental and feature slating work. Candidates will be expected to carry out practical installation of decorative slating, circular eaves and run of courses.

On completion of the Unit the candidate will be able to:

- 1 Analyse and explain how slates are applied to a decorative surface.
- 2 Demonstrate knowledge and understanding of ornamental and feature slating work.
- 3 Install slates to an ornamental and feature detail with circular eaves and run of courses.
- 4 Specify the methods used for maintaining Health and Safety requirements for roof work.

**Credit points and level:** 1 HN credit at SCQF level 7: (8 SCQF credit points at SCQF level 7\*)

*\*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.*

**Recommended prior knowledge and skills:** Access to this Unit will be at the discretion of the centre. It would be beneficial if candidates have successfully completed the Professional Development Award (PDA) in Roof Slating, Tiling and Cement Work at SCQF level 6 (G9GG 46) or have the equivalent level of industrial experience and prior learning

**Core Skills:** There are opportunities to develop the Core Skills of *Problem Solving, Numeracy, Working with Others, and Communication* at SCQF level 5 and *Information and Communication Technology* at SCQF level 4 in this Unit, although there is no automatic certification of Core Skills or Core Skills components.

**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. This Unit was developed as part of the Professional Development Award in Roof Slating and Tiling at SCQF level 7 and is aimed at candidates following a career in Roofing and receiving complementary industrial experience.

## **Unit title:** Roofing: Ornamental and Feature Slating Work

### **General information for centres (cont)**

**Assessment:** It is possible to assess candidates either on an individual Outcome basis or combination of Outcomes. Evidence should be shown by the candidate that there is sufficient knowledge of how ornamental and feature slating is used as a decorative feature. The candidate must also provide evidence of how ornamental and feature slating surfaces are used to enhance the aesthetics of the roof.

The candidates should be able to develop a knowledge and understanding of ornamental and feature slating used in the industry including Health and Safety requirements when installing ornamental and feature slating at heights.

The assessment instruments used should follow the general guidance offered by the Scottish Qualifications Authority (SQA) assessment model and an integrative approach to assessment is encouraged. Centres may use the instruments of assessment which they consider to be most appropriate but are advised to use the Roof Slating and Tiling Training and Assessment Programme (TAP) SCQF level 7 which has been developed centrally by SQA. Any other instruments of assessment used must be comparable to the TAP 7.

Accurate records should be made of the assessment instruments used showing how evidence is generated for each Outcome and given marking schemes, checklists and recorded candidate feedback. Records of candidates' achievements should be retained. These records must be made available for external verification.

### **Outcome 1, 2 and 4**

The assessment paper(s) for these Outcomes should be composed of an appropriate balance of completing written report, short answer, restricted response and structured questions. Assessment should be conducted under supervised, controlled conditions. Written assessment should not exceed three hours in duration.

### **Outcome 3**

The assessment(s) for this Outcome involves the installation of ornamental and feature slating surfaces. Candidates should be fully aware of the health and safety issues that cover the working at heights regulations.

## **Higher National Unit specification: statement of standards**

**Unit title:** Roofing: Ornamental and Feature Slating Work

**Unit code:** F8N4 34

The sections of the Unit stating the Outcomes, Knowledge and/or Skills, and Evidence Requirements are mandatory.

### **Outcome 1**

Analyse and explain how slates are applied to a decorative surface

#### **Knowledge and/or Skills**

- ◆ Analysis of roof condition
- ◆ Analysis of roof pitch
- ◆ Waterproofing membrane
- ◆ Timber boarding
- ◆ Thermal insulation
- ◆ Roofing ventilation systems
- ◆ Roof covering
- ◆ Roof details

#### **Evidence Requirements**

Candidates will need to provide evidence to demonstrate their Knowledge and/or Skills by showing that they can investigate analyse and report on the suitability of a roof for installing slating to decorative and feature details.

In any assessment of this Outcome all knowledge and/or skill items must be included. Candidates must provide a satisfactory response to all items which must be in accordance with Current British Standards and Codes of Practice.

Evidence must be gathered under open-book conditions.

#### **Assessment Guidelines**

Evidence for the knowledge and skills in this Outcome could be composed of a proposed project for which a roof is to be covered in ornamental and feature slating with run of courses and circular work.

The assessment for this Outcome might be combined with that for Outcomes 2 and 4 and conducted under open-book conditions not exceeding three hours.

## Higher National Unit specification: statement of standards (cont)

**Unit title:** Roofing: Ornamental and Feature Slating Work

### Outcome 2

Demonstrate knowledge and understanding of ornamental and feature slating work

#### Knowledge and/or Skills

- ◆ Ornamental and feature details
- ◆ Waterproofing membrane
- ◆ Timber boarding
- ◆ Thermal insulation
- ◆ Vertical covering
- ◆ Vertical area requirement

#### Evidence Requirements

Candidates will need to provide evidence to demonstrate their Knowledge and/or Skills by showing that they can:

- ◆ describe common types and uses of slate and ornamental details, including:
  - fishtail
  - gothic
  - arrow head
  - bullnose
- ◆ state the benefits of ornamental slates and feature work
- ◆ describe the basic requirements for the installation of natural slating
- ◆ illustrate by means of sketches the details of fixing ornamental and feature slating work

In any assessment of this Outcome will all knowledge and/or skills items should be included. Candidates must provide a satisfactory response to all items and must be in accordance with current British Standards and codes of practice for workmanship on building sites.

Evidence must be generated through assessment undertaken in controlled, supervised conditions.

#### Assessment Guidelines

Questions used to elicit candidate's evidence should take the form of an appropriate balance of scale drawings, annotated sketches, short answer, restricted response and structured questions.

In any assessment of this Outcome all knowledge and/or skill items should be included. Candidates must provide a satisfactory response to all items which must be in accordance with the current British Standard Code of practice for slating and tiling, and the current British Standard Code of practice for workmanship on building sites.

The assessment for this Outcome might be combined with that for Outcomes 1 and 4 and conducted under open-book conditions

## Higher National Unit specification: statement of standards (cont)

**Unit title:** Roofing: Ornamental and Feature Slating Work

### Outcome 3

Install slates to an ornamental and feature detail with circular eaves and run of courses

#### Knowledge and/or Skills

- ◆ Interpretation of manufacturer's instructions
- ◆ Roof coverings and their compatibility with ornamental and feature slating
- ◆ Calculation of areas
- ◆ Health and Safety controls
- ◆ Roof preparation
- ◆ Soakers
- ◆ Run off courses
- ◆ Circular eaves courses

#### Evidence Requirements

Candidates will need to provide evidence to demonstrate their Knowledge and/or Skills by showing that they can correctly prepare and slate a roof surface incorporating an ornamental detail and correctly prepare and slate a roof surface including a run of course and circular eaves.

#### Planning

- ◆ Interpret given information from manufacturers instructions
- ◆ Confirm roof covering compatibility
- ◆ Calculation of required area for plain tiles to roof and vertical work
- ◆ Ensure Health and Safety controls are appropriate

#### Preparation

- ◆ Check installation and manufacturer's instructions
- ◆ Measure area for installation and fixings
- ◆ Ensure underlay detail correct
- ◆ Check boarding suitability
- ◆ Install preparation work
- ◆ Check equipment and tools and suitability

#### Install slates to ornamental and feature work

- ◆ Correct setting out and positioning of ornamental detail
- ◆ Correct setting out and positioning of soakers and templates
- ◆ Correct setting out and positioning a run off course
- ◆ Correct setting out and positioning of circular eaves course.
- ◆ Correctly check weathering and finish details

## **Higher National Unit specification: statement of standards (cont)**

### **Unit title: Roofing: Ornamental and Feature Slating Work**

All knowledge and/or skills items must be evidenced. An assessor observation checklist should be completed to ensure that the candidate has met the required specification and manufacturer guidelines and this observation checklist should be retained as evidence. Evidence must be gathered under controlled, supervised conditions.

All knowledge and/or skill items should be included. Candidates must provide a satisfactory response to all items which must be in accordance with current British Standards and codes of practice for workmanship on building sites.

#### **Assessment Guidelines**

The assessment of this Outcome is based on the preparation and installation ornamental and feature details in which the candidate must refer to the manufacturer's instructions.

Candidates should be observed and assessed against the standard identified in the Evidence Requirements.

### **Outcome 4**

Specify the methods used for maintaining Health and Safety requirements for roof work

#### **Knowledge and/or Skills**

- ◆ Working at height
- ◆ Risk assessment
- ◆ Method statements
- ◆ Manual handling
- ◆ Control of Substances Hazardous to Health

#### **Evidence Requirements**

Candidates will need to provide evidence to demonstrate their Knowledge and/or Skills by showing that they can:

- ◆ correctly adhere to methods and activities in terms of current working at height regulations
- ◆ undertake a risk assessment
- ◆ explain requirements for a method statement
- ◆ correctly adhere to methods and activities in terms of current manual handling operations regulations
- ◆ correctly adhere to methods and activities in terms of current control of substances hazardous to health regulations

#### **Assessment Guidelines**

Questions used to elicit candidate's evidence should take the form of an appropriate balance of annotated sketches, short answer, restricted response, structured questions and completion of a Risk Assessment.

In any assessment of this Outcome all knowledge and/or skills items should be included. Candidates must provide a satisfactory response to all items.

The assessment for this Outcome might be combined with that for Outcomes 1 and 2 and conducted under open-book conditions.

## Administrative Information

**Unit code:** F8N4 34

**Unit title:** Roofing: Ornamental and Feature Slating Work

**Superclass category:** TG

**Original date of publication:** August 2010

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### History of changes:

Version	Description of change	Date

**Source:** SQA

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## Higher National Unit specification: support notes

### Unit title: Roofing: Ornamental and Feature Slating Work

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 an optional Unit in the Professional Development Award (PDA) in Roof Slating and Tiling at SCQF level 7.

This Unit is intended to equip candidates with all necessary underpinning knowledge and skills related to ornamental and feature slating work.

At the time of writing the following applies, although centres must ensure the most up to date standards and legislation are adhered to:

- ◆ BS 5534: the British Standard Code of practice for slating and tiling
- ◆ BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites.
- ◆ Working at Height Regulations 2005
- ◆ Manual Handling Operations Regulations 1992
- ◆ COSHH 1992

The following information may be helpful in relation to specific Outcomes:

#### **Outcome 1: Analyse and explain how slates are applied to a decorative surface (Recommended 4 hours)**

- ◆ Condition of supporting timbers in new and existing roof work
- ◆ Suitability of materials to pitched and vertical surfaces
- ◆ Roof pitch, covering lap gauge and covering
- ◆ Technical details to ornamental and feature details
- ◆ Underlay and boarding
- ◆ Condition of roof covering
- ◆ Roof area requirements

#### **Outcome 2: Demonstrate knowledge and understanding of ornamental and feature slating work finish (Recommended 6 Hours)**

- ◆ Type of slates and suitability for location
- ◆ Minimising waste for specific details
- ◆ Boarding details in line with specification
- ◆ Details of openings and decorative finish
- ◆ Maintaining head and side lap for water penetration and aesthetics



## Higher National Unit specification: support notes (cont)

### Unit title: Roofing: Ornamental and Feature Slating Work

#### Outcome 3: Install slates to an ornamental and feature detail with circular eaves and run of courses (Recommended 23 hours)

- ◆ Source and interpret information for installation
- ◆ Inspect roof structure (defects in timber work, roof covering compatibility, roof size, pitch, orientation)
- ◆ Calculation of materials required
- ◆ Roof pitch, covering lap gauge and covering
- ◆ Technical details to ornamental detail and groundwork
- ◆ Underlay and boarding
- ◆ Condition of roof covering
- ◆ Roof area requirements
- ◆ Details of run of courses
- ◆ Ventilation systems to be incorporated on pitched roof
- ◆ Cover/side and head flashing
- ◆ Double lap cover to be maintained around openings
- ◆ Weathering details
- ◆ Manufacturers details to be used throughout installations

#### Outcome 4: Specify the methods used for maintaining Health and Safety requirements for roof work (Recommended 7 hours)

- ◆ **Health and Safety requirements**
  - Current Work at Height Regulations
  - Requirements for existing places of work or means of access or egress
  - Guard-rails, toe-boards, barriers or similar collective means of protection.
  - Requirements for working platforms
  - Requirements for collective safeguards for arresting falls
  - Requirements for personal fall protection system
  - Requirements for ladders
  - Particulars to be included in a report of inspection
- ◆ **Risk Assessment**
  - What is a Risk Assessment?
  - Completion of a Risk Assessment: Task description, location, completion date, review date, persons affected individuals or groups, hazards/consequences, identifying existing control procedures, risk ranking
- ◆ **Method Statements**
  - What is a Method Statements?
  - Requirements of a Method Statements: Task description, preparation, installation, commissioning, testing and handover, information sources
- ◆ **Manual Handling**
  - avoiding hazards
  - assessing hazards
  - reducing the risk of injury

## Higher National Unit specification: support notes (cont)

### Unit title: Roofing: Ornamental and Feature Slating Work

#### ◆ Control of Substances Hazardous to Health (COSHH)

- What is covered?
- What are the main obligations?
- Define good control practices

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. Safe 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.

Emphasis should be placed on appropriate areas such as waste management and effective sourcing and use of materials.

Where feasible, centres should also incorporate modern methods of construction used in industry. Candidates should be made aware of current industry practice and emerging practice or technology which may become conventional in the future.

### Guidance on the delivery and assessment of this Unit

As part of the Professional Development Award (PDA) in Roof Slating and Tiling at SCQF level 7, this Unit may be delivered in a sequence suitable to individual candidates and centres. When completing this Unit as part of the PDA it is recommended that, where possible, opportunity is taken to integrate aspects of Constructional Technical Communication Skills (DW4D 34). This Unit could also be delivered as a free standing Unit.

This Unit builds on the knowledge and understanding of roofing skills gained in the Roof Slating, Tiling and Cement Work PDA at SCQF level 6. It is recommended that evidence for the Outcomes is achieved through well-planned course work, assignments and projects. Assessment may be formative and summative and both may feature as part of the process. Although assessments must be focused on the individual achievement of each candidate, group work may contribute to the assessment. Integrative assignments and project work will help to link this Unit with other Units in the Roof Slating and Tiling PDA at SCQF level 7.

If feasible, site visits or information about modern and potential future methods of construction would be beneficial. This approach could be used to enhance the candidate's experience and understanding of how their skills and knowledge might be applied in real industry situations.

Centres may use the instruments of assessment which they consider to be the most appropriate but are advised to use the Roof Slating and Tiling Training and Assessment Programme at SCQF level 7 (TAP 7) which has been developed centrally by SQA. Any other instruments of assessment used must be comparable to the TAP and have been through prior verification.

Details on approaches to assessment are given under Evidence Requirements and Assessment guidelines under each Outcome in the Higher National Unit specification: statement of standards section. It is essential that these sections be read carefully before proceeding with assessment of candidates.

## Higher National Unit specification: support notes (cont)

### Unit title: Roofing: Ornamental and Feature Slating Work

The volume of evidence required for each assessment should take into account the overall number of assessments being contemplated within this Unit and the design of the overall teaching programme. In designing the assessment instrument/s, opportunities should be taken to generate appropriate evidence to contribute to the assessment of Core Skills.

#### *Opportunities for developing Core Skills*

The Core Skills of *Problem Solving* at SCQF level 5 could be developed for Outcomes 1, 3 and 4 through analysing a range of factors in order to work efficiently and safely, such as the suitability and condition of the roof, choice of tools and equipment, appropriate materials, safety issues, safety equipment and sustainability. Individual discussions with assessors and the use of role play will enhance the evaluation of efficient working practices.

The Core Skill of *Numeracy* at SCQF level 5 could be developed for Outcomes 2 and 3 through roofing calculations for area and material estimating.

There are opportunities for candidates to develop the Core Skill of *Working with Others* at SCQF level 5 through working in pairs for Outcome 3. Candidates can agree responsibilities and provide support and information to each other during the practical group activities.

Candidates will have the opportunity to develop the Core Skill of *Communication* at SCQF level 5 throughout practical tasks, as they should be expected to communicate with others using the correct terminology, tone and style suited to the workplace.

Opportunities also arise for candidates to develop the Core Skill of *Information and Communication Technology* at SCQF level 4 for Outcome 1 and 2 through researching new technologies, terminology and techniques used in roofing on the internet, word processing for report writing, spreadsheets for materials information, e-learning and e-assessment.

Core Skill	Outcome 1	Outcome 2	Outcome 3	Outcome 4
<b>1 Communication</b>				
Reading	SCQF 5	SCQF 5	SCQF 5	
Writing	SCQF 5	SCQF 5	SCQF 5	
Oral	SCQF 5	SCQF 5	SCQF 5	
<b>2 Numeracy</b>				
Using Number		SCQF 5	SCQF 5	
Using Graphical Information		SCQF 5	SCQF 5	
<b>3 IT</b>				
Using Information Technology	SCQF 4	SCQF 4		SCQF 4
<b>4 Problem Solving</b>				
Critical Thinking	SCQF 5		SCQF 5	SCQF 5
Planning and Organising	SCQF 5		SCQF 5	SCQF 5
Reviewing and Evaluating	SCQF 5		SCQF 5	SCQF 5
<b>5 Working with Others</b>			SCQF 5	

## **Higher National Unit specification: support notes (cont)**

**Unit title:** Roofing: Ornamental and Feature Slating Work

### **Open learning**

Although this Unit could be delivered by distance learning, it would require a considerable degree of planning by the centre to ensure the sufficiency and authenticity of candidate evidence. Arrangements would have to be made to ensure that:

- ◆ candidates have access to a suitable workshop with suitable equipment and tools
- ◆ health and safety considerations are fully taken into account
- ◆ the practical activities are supervised by a responsible person and clearly recorded (using an assessment checklist for the assessor)
- ◆ the assessor is, at some point, able to question the candidate on that performance
- ◆ assessment is carried out under the stated conditions

For information on open learning arrangements, please refer to the SQA guide *Assessment and Quality Assurance of Open and Distance Learning* ([www.sqa.org.uk](http://www.sqa.org.uk))

### **Disabled candidates and/or those with additional support needs**

The Unit specification is intended to ensure that there are no artificial barriers to learning or assessment. The additional support needs of individual candidates should be taken into account when planning learning experiences, selecting assessment instruments, or considering whether any reasonable adjustments may be required. Further advice can be found on our website [www.sqa.org.uk/assessmentarrangements](http://www.sqa.org.uk/assessmentarrangements)

## General information for candidates

### Unit title: Roofing: Ornamental and Feature Slating Work

This Unit has been designed to further your career in the construction industry by developing your competence and improving your knowledge of ornamental and feature slating work. It has been written as part of the Professional Development Award (PDA) in Roof Slating and Tiling at SCQF level 7, and is for experienced crafts persons working in the construction industry as roofers.

The Unit will help develop your underpinning knowledge and skills related to ornamental and feature slating work and will require you to carry out some complex slating.

On completion of the Unit you should be able to:

- 1 Analyse and explain how slates are applied to a decorative surface.
- 2 Demonstrate knowledge and understanding of ornamental and feature slating work.
- 3 Install slates to an ornamental and feature detail with circular eaves and run of courses.
- 4 Specify the methods used for maintaining Health and Safety requirements for roof work.

Evidence that you can satisfy the knowledge and skill elements of this Unit will be obtained by assessment in controlled, supervised conditions. The assessment/s will be open-book which will necessitate the reference to textbooks, handouts, manufacturer data sheets and instruction manuals.

You will also be assessed on your practical ability to carry out ornamental and feature slating. Your assessor will observe what you do and how well you slate to the required standard.

There are opportunities for you to develop the Core Skills of *Problem Solving, Numeracy, Working with Others, and Communication* at SCQF level 5 and *Information and Communication Technology* at SCQF level 4 in this Unit, although there is no automatic certification of Core Skills or Core Skills components.

If you successfully complete this Unit and the full PDA at SCQF level 7, you will not only have advanced your craft skills, but will automatically receive some credit if you progress on to the HNC Construction.