



National Unit specification

General information

Unit title: Roofing: Single Lap Tiling Hip and Valley Dry Detail (SCQF level 6)

Unit code: HK51 46

Superclass: TG

Publication date: June 2017

Source: Scottish Qualifications Authority

Version: 02

Unit purpose

This unit is suitable for learners working towards a Modern Apprenticeship in Roofing Occupations and will develop the learner's skills in single lap tile roof coverings to a hip and valley roof surface incorporating dry detail. This unit is designed to provide learners with the competence in the preparation and application of single lap tile roof coverings to a hip and valley roof surface and the ability to apply these skills in the workplace. It is also designed to enable learners to develop knowledge and understanding in roofing terminology, techniques and operations.

Outcomes

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

- 1 Identify common roof types, terminology and sequence of operations for the application of single lap tiles to a hip and valley roof surface.
- 2 Prepare and set out a hip and valley roof surface for single lap tiling.
- 3 Position and fix single lap tiles and components to a hip and valley roof surface.

Credit points and level

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

Recommended entry to the unit

While entry is at the discretion of the centre, learners undertaking the Professional Development Award in Roofing Occupations at SCQF level 6 must meet the requirements of the Modern Apprentices which include being employed in the relevant craft industry.

National Unit specification: General information (cont)

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Core Skills

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

There are also opportunities to develop aspects of Core Skills which are highlighted in the support notes of this unit specification.

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.

The Training and Assessment Programme (ASP) for this unit provides assessment and marking guidelines that exemplify the national standard for achievement. It is a valid, reliable and practicable assessment. Centres wishing to develop their own assessments should refer to the TAP to ensure a comparable standard. A list of existing ASPs is available to download from SQA's website (<http://www.sqa.org.uk/sqa/46233.2769.html>).

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

Identify common roof types, terminology and sequence of operations for the application of single lap tiles to a hip and valley roof surface.

Performance criteria

- (a) Identify common roof types.
- (b) Describe terminology related to a hip and valley roof surface.
- (c) Describe the sequence of operations for applying single lap tiles to a hip and valley roof surface.

Outcome 2

Prepare and set out a hip and valley roof surface for single lap tiling.

Performance criteria

- (a) Prepare a hip and valley roof surface for tiling.
- (b) Set out roof to include opening.

Outcome 3

Position and fix single lap tiles and components to a hip and valley roof surface.

Performance criteria

- (a) Fix tiles and components to roof in accordance with the specification.
- (b) Cut and fix tiles round opening, valley and hips accurately.
- (c) Form hip and ridge using dry detail.

National Unit specification: Statement of standards (cont)

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Evidence requirements for this unit

Evidence is required to demonstrate that the learners 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.

Written and/or oral evidence is required for Outcome 1 which demonstrates that the learner can identify common roof types, and describe the terminology and sequence of operations associated with single lap tile roof coverings to a hip and valley roof surface. The evidence for this outcome will take the form of a question paper and be obtained under closed-book supervised conditions.

Performance and product evidence for Outcomes 2 and 3, supplemented with an assessor observation checklist, should be used to confirm the learner has individually met the standards specified in the performance criteria and summary of standards.

Learners must achieve the following standards:

Felt at eave, Overhang	50 mm \pm 5 mm
Felt at valley Minimum	600 mm — centred in valley \pm 10 mm
Form valley using GRP	GRP fixed to manufacturer's instructions
Felt at GRP	Cut straight and lapped to manufacturer's instructions
Horizontal lap of felt	100 mm \pm 10 mm
Fixing felt	Fixed without punctures/tears
Fix counter battens	Straight and true over rafters
Fix dry ridge section	Fixed to manufacturer's instructions
Set out battens to struck lines	Correctly \pm 3 mm
Nailing battens	Nailed to counter battens without splits
Fix dry hip section	Fixed to manufacturer's instructions
Overhang of tiles at eaves	50 mm \pm 5 mm
Tiles at valley	Cut straight and parallel and to manufacturer's overhang — GRP
Tiles at hip	Cut straight to suit dry hip instructions
Fixing tiles	Tiles fixed to lecturer's instructions
Tiling at opening — chimney	Minimum overhang of 50 mm maintained
Fix dry hip tiles	Fixed to manufacturer's instructions
Fix dry ridge tiles	Fixed to manufacturer's instructions
Working area	Clean at all times
Health and safety	Complies at all times
Risk assessment	Safety boots worn at all times, high visibility vest worn at all times, hard hat worn at all times
Method statement	Working area kept clean at all times, materials stacked correctly at all times, tools handled correctly at all times, Tools cleaned and stored safely at end of working day

These evidence requirements will be met by the completion of the Roofing Occupations Training and Assessment Programme (TAP).



National Unit Support Notes

Unit title: Roofing: Single Lap Tiling Hip and Valley Dry Detail
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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 a mandatory unit in the Professional Development Award (PDA) in Roofing Occupations at SCQF level 6.

This unit would be offered to learners 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 learners 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 learners work and area of responsibility.

The successful completion of this unit will help provide learners with the required underpinning knowledge and skills relating to the terminology, preparation and application of single lap tile roof coverings including dry detail, to a hip and valley roof surface.

The context of this unit allows for a holistic integrated approach into other units within the PDA in Roofing Occupations. Therefore there are opportunities to integrate this unit with aspects of *Roofing: Single Lap Tiling Gable to Dry Details*, at SCQF level 6.

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 approaches to delivery of this unit

The learning environment for this unit will be a combination of classroom and workshop based learning. The knowledge element of this unit would be taught in a classroom environment and put into practice in the workshop in conjunction with practical outcomes.

The learner should be given the opportunity to further develop their skills through visual aids, electronic presentations, DVDs, e-learning, reference books, classroom exercises and group discussions.

National Unit Support Notes (cont)

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Learners should be encouraged to consider basic risk assessment prior to any practical activities taking place.

Outcome 1

It would be beneficial for learners to sketch various elements related to single lap tile roof coverings to a hip and valley roof surface. This will help reinforce learners' underpinning knowledge for this unit.

Outcomes 2 and 3

It is recommended that learners work in pairs for these outcomes. Learners should be encouraged in self and peer evaluation of work and achievement of standards.

The learner should be provided with a three-dimensional working drawing and specification outlining the content and performance criteria for the practical activities attempted.

Learners should be made fully aware of current regulations and legislation in relation the roofing activities contained within this unit.

It would be beneficial for lecturers to reinforce the appropriate disposal and re-use of roofing materials for sustainability considerations.

Learners should be encouraged to correctly estimate materials and components for completion of works. This could either take place in a classroom or workshop environment.

Learners could take the opportunity to use spread sheets to compile and record information related to material estimating.

Lecturers should provide learners with constructive feedback in relation to performance and the standard achieved. Areas for improvement should be clearly identified.

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 Productive Working Practices*
- ◆ *Conform to General Workplace Health, Safety and Welfare*
- ◆ *Move, Handle or Store Resources*
- ◆ *Confirm Work Activities and Resources for the Work*
- ◆ *Develop and Maintain Good Working Relationships*
- ◆ *Confirm the Occupational Method of Work*

National Unit Support Notes (cont)

Unit title: Roofing: Single Lap Tiling Hip and Valley Dry Detail
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Guidance on approaches to assessment of this unit

The Roofing Occupations Training and Assessment Programme (TAP) provides detailed assessment material for this unit. It is 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 through prior verification. It is expected that learners will be given as much practise as possible, prior to being set assessment tasks.

For Outcome 1 a suitable method of assessing the learner's knowledge and understanding of common roof types, terminology and sequence of operations for single lap tile roof coverings to a hip and valley roof surface would be through a question paper incorporating multiple choice questions.

For Outcomes 2 and 3 the learner's ability to set out single lap tile roof coverings to a hip and valley roof surface, including dry detail, will be assessed through practical activities. An assessor observation checklist can be used to ensure and record that the learners have met the given standards and tolerances during the practical activity.

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

There are opportunities to develop aspects of the Core Skill of Problem Solving. 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. Individual discussions with assessors and the use of role play will enhance the evaluation of efficient working practices.

Numeracy skills at SCQF level 4 could be developed through roofing calculations for area and material estimating.

Opportunities also arise for learners to develop the Core Skill of Information and Communication Technology (ICT) at SCQF level 3 through researching roofing terminology and techniques on the internet, spread sheets for materials information, e-learning and e-assessment.

National Unit Support Notes (cont)

Unit title: Roofing: Single Lap Tiling Hip and Valley Dry Detail
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There are opportunities for learners to develop the Core Skill of Working with Others at SCQF level 4 through working in pairs for Outcomes 2 and 3. Learners can agree responsibilities and provide support and information to each other during the practical group activities.

Learners will have the opportunity to develop Communication skills at SCQF level 4 throughout practical tasks, as they should be expected to communicate with others using the correct terminology, tone and style suited to the workplace.

This unit has the Critical Thinking component 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.

History of changes to unit

Version	Description of change	Date
02	Core Skills component Critical Thinking at SCQF level 4 embedded.	01/06/17

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General information for learners

Unit title: Roofing: Single Lap Tiling Hip and Valley Dry Detail (SCQF level 6)

This unit is aimed at those who are interested in pursuing a career in the roofing. You will gain an understanding of the terminology, sequences and practical skills in single lap tiling on Hip and Valley roofs.

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 half brick walling which in turn will further develop your skills and knowledge.

There are opportunities to develop aspects of the Core Skill of Problem Solving. 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. Numeracy skills at SCQF level 4 could be developed through roofing calculations for area and material estimating.

Opportunities also arise for to develop the Core Skill of Information and Communication Technology (ICT) at SCQF level 3 through researching roofing terminology and techniques on the internet, spread sheets for materials information, e-learning and e-assessment.

There are opportunities to develop the Core Skill of Working with Others at SCQF level 4 through working in pairs for Outcomes 2 and 3. You will be required to agree responsibilities and provide support and information to each other during the practical group activities.

There is the opportunity to develop Communication skills at SCQF level 4 throughout practical tasks, as you will be expected to communicate with others using the correct terminology, tone and style suited to the workplace.

This unit has the Critical Thinking component 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.