



## National Unit Specification

### General information

**Unit title:** Roofing: External Cement Work Textured Finishes  
(SCQF level 6)

**Unit code:** HK53 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. This unit is designed to provide learners with competence in the use of tools and equipment to prepare and cover wall areas in a range of different textured finishes. It is also designed to enable learners to develop their knowledge and understanding in external cement work terminology, techniques and sequencing of operations related to different textured finishes.

### Outcomes

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

- 1 Demonstrate knowledge and understanding of terminology, components, techniques and sequence of operations for the application of various textured surface finishes.
- 2 Prepare backgrounds for the application of external cement work textured finishes.
- 3 Produce wet dash, dry dash and cement band.

### 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)

**Unit title:** Roofing: External Cement Work Textured Finishes (SCQF level 6)

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

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

**Unit title:** Roofing: External Cement Work Textured Finishes (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 terminology, components, techniques and sequence of operations for the application of various textured surface finishes.

#### **Performance criteria**

- (a) Define the terminology and components related to external cement work textured finishes.
- (b) Describe the techniques and sequence of operations required for external cement work textured finishes.
- (c) State basic health and safety requirements related to external cement work.

### **Outcome 2**

Prepare backgrounds for the application of external cement work textured finishes.

#### **Performance criteria**

- (a) Prepare backgrounds and fix render scrim prior to applying textured finishes.
- (b) Apply a cement render first coat and form a scratch finish/mechanical key.

### **Outcome 3**

Produce wet dash, dry dash and cement band.

#### **Performance criteria**

- (a) Apply cement render coat for external cement work textured finishes.
- (b) Produce a dry dash finish correctly.
- (c) Produce a cement band finish correctly

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

**Unit title:** Roofing: External Cement Work Textured Finishes (SCQF level 6)

### **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 define and describe the terminology, components, techniques and sequence of operations associated with external cement work to form external cement work textured finishes. 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 will be observed to show that they can achieve the following through the delivery of the unit:

- ◆ Measure area accurately
- ◆ Set out and fix metal lath/render scrim, bellcast bead and stop beads
- ◆ Prepare backgrounds for external cement/polymer textured finishes
- ◆ Store and stack external cement materials, accessories, tools and equipment
- ◆ Control suction of backgrounds prior to rendering
- ◆ Gauge, mix and apply mortar/render to required specification
- ◆ Apply dry dash and form a cement band finish
- ◆ Protect and clean down work areas
- ◆ Minimise wastage of materials to improve sustainability and efficiency
- ◆ Behave in a safe manner at all times

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.

Competence will be based on learners completing practical activities in accordance with the stated tolerances.

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

**Unit title:** Roofing: External Cement Work Textured Finishes (SCQF level 6)

**Summary of Standards for external cement work textured finishes (working towards industrial tolerances)**

### Background preparation

Prepare background	Surface free from loose or spalling material
Prepare background	Brushes wall area clean
Prepare background	Fix render scrim to manufactures instructions
Form bellcast	Fixed level and secure
Control suction	Wall area evenly damped down throughout

### External cement work textured finishes, wet dash, dry dash and scraped textured finish

Apply first coat	Free from heavy trowel marks
First coat applied evenly	8–12 mm throughout
Form mechanical key (scratch)	Horizontal scratched 6–8 mm deep
Form bellcast	Correctly finished at edge of bead
Fix metal beads	Fixed level plumb and secure
Apply second coat	Free from heavy trowel marks
Apply dry dash	Evenly without sags or misses
Apply dry dash	Sufficiently bedded into background
Form float finish	Free from hollows and score marks and even texture throughout
Form cement band	Finished to allow texture to finish flush with band +/- 5mm
Protect base and bands	Free from damage
Free from runs and whip marks	Even colour throughout

### Health and Safety

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 clean at all times
Materials	Stacked 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) that provides detailed assessment material for this unit.



## National Unit Support Notes

**Unit title:** Roofing: External Cement Work Textured Finishes (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 national 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 external cement work textured finishes.

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: External Cement Work Bands and Artificial Stone Work* (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.

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

## National Unit: Support Notes (cont)

**Unit title:** Roofing: External Cement Work Textured Finishes (SCQF level 6)

### Outcome 1

This outcome should introduce the learner into the terminology, components, techniques and sequence of operations of external cement textured finishes. Terminology and components could include those indicated below:

Terminology: Background, bellcast, dubbing out, spatter-dash, dry dash, wet dash, bond or key, scraped texture.

Components: Bellcast bead, stop bead, standard beads, render scrim, fixings and polymer renders.

### Outcomes 2 and 3

Learners should be encouraged in self and peer evaluation of work and achievement of standards.

The learner should be provided with a 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 external cement work activities contained within this unit.

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

Learners should be encouraged to calculate areas and quantities of external cement work materials. This could take place in a classroom or a 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: External Cement Work Textured Finishes (SCQF level 6)

### **Guidance on approaches to assessment for 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 practice as possible, prior to being set assessment tasks.

For Outcome 1 a suitable method of assessing the learner's knowledge and understanding of external cement work terminology, components and sequence of operations for external cement work textured finishes would be through a question paper incorporating multiple-choice questions.

For Outcomes 2 and 3 the learner's ability to set out and apply external cement work textured finishes 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](http://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 external cement work 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 external cement work terminology and techniques on the internet, spread sheets for materials information, e-learning and e-assessment.

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.



## **National Unit Specification: Support Notes (cont)**

**Unit title:** Roofing: External Cement Work Textured Finishes (SCQF level 6)

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: External Cement Work Textured Finishes (SCQF level 6)

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 aimed at those who are interested in pursuing a career in roofing. You will gain an understanding of the terminology and sequences of external cement work textured finishes.

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 external cement work textured finishes 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. 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 external cement work calculations for area and material estimating.

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

You will have 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.