



## National Unit specification: general information

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

**Unit code:** H10G 12

**Superclass:** TG

**Publication date:** March 2012

**Source:** Scottish Qualifications Authority

**Version:** 01

## Summary

This Unit is suitable for candidates working towards a Modern Apprenticeship in Roofing Occupations. This Unit is designed to provide candidates 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 candidates to develop their knowledge and understanding in external cement work terminology, techniques and sequencing of operations related to different textured finishes.

## Outcomes

- 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 scraped texture finish.

## Recommended entry

While entry is at the discretion of the centre, candidates 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.

## Credit points and level

1 National Unit credit at SCQF level 6 (6 SCQF credit points at SCQF level 6\*).

*\*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.*

## **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:

Complete Core Skill            None

Core Skill component        Critical Thinking @ SCQF level 4

There are also opportunities to develop aspects of Core Skills which are highlighted in the Support Notes of this Unit Specification.

## **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.
- (c) Comply with current health and safety requirements throughout activity.

### **Outcome 3**

Produce wet dash, dry dash and scraped textured finishes.

#### **Performance Criteria**

- (a) Apply cement render coat for external cement work textured finishes.
- (b) Produce a wet dash finish correctly.
- (c) Produce a dry dash finish correctly.
- (d) Produce a scraped textured finish correctly
- (e) Comply with current health and safety requirements throughout activity.

## 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 candidates 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 candidate 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 candidate has individually met the standards specified in the Performance Criteria and summary of standards. Candidates 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 wet dash/ dry dash and form scraped textured finish
- ◆ Protect and clean down work areas
- ◆ Minimise wastage of materials to improve sustainability and efficiency
- ◆ Behave in a safe manner at all times

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

### 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

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

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

### 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	8–16 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 second coat (wet dash)	Evenly brushed with stiff broom
Apply wet dash	Evenly without sags or misses
Apply wet roughcast	Free from runs and whip/switch 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 scraped finish	Even texture throughout
Protect base and bands	Free from roughcast splashes
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 specification: 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 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 candidates 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 candidates 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 candidates work and area of responsibility.

The successful completion of this Unit will help provide candidates 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 learning and teaching approaches for 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 candidate 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.

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

## National Unit specification: support notes (cont)

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

### Outcome 1

This Outcome should introduce the candidate 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

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

The candidate should be provided with a working drawing and specification outlining the content and Performance Criteria for the practical activities attempted.

Candidates 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.

Candidates should be encouraged to calculate areas and quantities of external cement work materials. This could take place in a classroom or a workshop environment. Candidates could take the opportunity to use spread sheets to compile and record information related to material estimating.

Lecturers should provide candidates 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 specification: 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 candidates will be given as much practice as possible, prior to being set assessment tasks.

For Outcome 1 a suitable method of assessing the candidate'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 candidate'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 candidates have met the given standards and tolerances during the practical activity.

### Opportunities for the use of 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 candidate evidence and that conditions of assessment as specified in the Evidence Requirements are met, regardless of the mode of gathering evidence. Further advice is available in *SQA Guidelines on Online Assessment for Further Education (AA1641, March 2003)*, *SQA Guidelines on e-assessment for Schools (BD2625, June 2005)*.

### Opportunities for developing Core Skills

There are opportunities to develop aspects of the Core Skill of *Problem Solving*. Candidates 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 candidates to develop the Core Skill of *Information and Communication Technology* 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.

Candidates 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)**

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

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

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)

## History of changes to Unit

Version	Description of change	Date

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