



## National Unit specification: general information

**Unit title:** Roofing: External Cement Work Plain Render and Ashlar Finish (SCQF level 6)

**Unit code:** H10F 12

**Superclass:** TG

**Publication date:** March 2012

**Source:** Scottish Qualifications Authority

**Version:** 01

## Summary

This Unit will be suitable for candidates working towards a Modern Apprenticeship in Roofing Occupations and will develop the candidate's skills in external cement work plain render finishing. This Unit is designed to provide candidates with the competence in the preparation and application and finishing of cement render and the ability to apply these skills in the workplace. It is also designed to enable candidates to develop knowledge and understanding in external cement rendering terminology and techniques.

## Outcomes

- 1 Demonstrate knowledge and understanding of terminology and techniques used to produce a plain render and ashlar finish.
- 2 Prepare background surfaces to receive cement rendering.
- 3 Apply cement rendering and produce a plain rendered/ashlar 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 Plain Render and Ashlar Finish (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 Plain Render and Ashlar Finish (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 and techniques used to produce a plain render and ashlar finish.

#### **Performance Criteria**

- (a) Define terminology related to plain/ashlar rendered finishes.
- (b) Identify suitable background surfaces to receive rendered finishes.
- (c) Identify tools and equipment to produce plain/ashlar rendered finishes.
- (d) Describe techniques used to prepare background surfaces to receive cement render finishes.

### **Outcome 2**

Prepare background surfaces to receive cement rendering.

#### **Performance Criteria**

- (a) Prepare backgrounds and apply EML/Render Scrim correctly.
- (b) Damp wall correctly to receive a render finish.
- (c) Comply with all health and safety requirements at all times.

### **Outcome 3**

Apply cement rendering and produce a plain/ashlar rendered finish.

#### **Performance Criteria**

- (a) Apply render coats in accordance with the specification.
- (b) Produce a plain/ashlar rendered finish in accordance with the specification.
- (c) Maintain a clean working area at all times.
- (d) Comply with all health and safety requirements at all times.

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

**Unit title:** Roofing: External Cement Work Plain Render and Ashlar Finish (SCQF level 6)

### Evidence Requirements for this Unit

Evidence is required to demonstrate that candidates have achieved all Outcomes and Performance Criteria. All working practices must be in line with the relevant and current health and safety legislation and practices.

Written and/or oral evidence is required for Outcome 1 which demonstrates that the candidate can show knowledge and understanding of the techniques and practices required to produce a plain/ashlar rendered finish in external cement work. The evidence for this Outcome will take the form of a written question paper and will be obtained under open-book supervised conditions.

Performance and product evidence is required for Outcomes 2 and 3 supplemented with an assessor observation checklist/record to show that the candidate has achieved the standard specified in the Performance Criteria and summary standards.

Competence will be based on the candidate completing the practical activities in accordance with the stated tolerances. Candidates must achieve the following standards:

Summary of standards (for candidate information only)	
Item	Measurement of standard
Prepare background — blocks/bricks	Removes loose/spalling blocks/bricks
Prepare background — blocks/bricks	Removes all extraneous mortar
Prepare background — blocks/bricks	Brushes wall area clean
Control suction — wetting	Wall area evenly damped down throughout
Apply first coat	Free from heavy trowel marks
First coat applied evenly	8–16mm throughout
Form mechanical key (scratch)	Horizontal scratched 6–8mm deep
Apply second coat	Ruled off evenly
Form float finish	Free from hollow and score marks
Form float finish	Even texture throughout
Working area	Clean at all times
Health and safety	Complies at all times

Fix EML/Render Scrim	To manufacturer's instructions
Keyed to form Ashlar Blocks	Level +/- 5mm
Keyed to form Ashlar Blocks	Plumb +/- 5mm
Keyed Joints	Uniform Depth & Width
Keyed to form Ashlar Blocks	Blocks suitably bonded

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

## National Unit specification: support notes

**Unit title:** Roofing: External Cement Work Plain Render and Ashlar Finish (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 will be offered to candidates from the construction and related services industries. The skills and knowledge and understanding are transferable within the different working environments but the Unit is primarily aimed at candidates whose normal place of work would be site, workshop or similar environment. It should be part of a structured programme of training and orientated to the context of candidates work area of responsibility.

The successful completion of this Unit will provide candidates with the required underpinning knowledge and skills relating to the terminology, preparation and application of plain/ashlar finish external cement work.

The context of this Unit allows for a holistic approach to other Units within the PDA in Roof Slating Tiling and Cement Work. Therefore, there are opportunities to integrate with aspects of *Roofing: External Cement Work Textured Finishes* at SCQF at 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.

## National Unit specification: support notes (cont)

**Unit title:** Roofing: External Cement Work Plain Render and Ashlar Finish (SCQF level 6)

### 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.

#### Outcome 1

It would be beneficial for candidates to sketch various elements related to external cement work. This will help reinforce candidates' underpinning knowledge for this Unit.

#### Outcomes 2 and 3

It is recommended that candidates for these Outcomes should be encouraged in self and peer evaluation of work and achievement of standards.

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 where possible re-use of materials for sustainability considerations.

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 Plain Render and Ashlar Finish (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 terminology, details would be through a question paper incorporating multiple choice questions, short answer questions and sketches.

For Outcomes 2 and 3 the candidate's ability to prepare and produce a plain render finish 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 calculations for area and volume material estimating.

Opportunities also arise for candidates to develop the Core Skill of *Information and Communication Technology (ICT)* at SCQF level 3 through researching 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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