



National Unit Specification: general information

UNIT Plastering: Producing and Fixing Fibrous Plaster Casts
(SCQF level 6)

CODE F6SF 12

SUMMARY

This Unit is suitable for candidates working towards a Modern Apprenticeship in Plastering and will develop the candidate's craft skills in producing a reverse running mould, produce and fix fibrous plaster casts. This Unit is designed to provide candidates with competence in the use of tools and equipment to producing and fixing fibrous plaster casts and the ability to apply these skills in the workplace. It is also designed to enable candidates to develop their understanding and use of plastering terminology, techniques and practices, produce working drawings to set out and produce and fix fibrous plaster casts.

OUTCOMES

- 1 Demonstrate knowledge and understanding of terminology, techniques and practices used in producing and fixing fibrous plaster casts.
- 2 Draw a cornice profile and construct a reverse running mould.
- 3 Run a reverse mould.
- 4 Produce fibrous plaster casts from reverse mould.
- 5 Set out, fix and mitre fibrous casts to given area.

RECOMMENDED ENTRY

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

Administrative Information

Superclass: TG

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National Unit Specification: general information (cont)

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(SCQF level 6)

CREDIT VALUE

2 credits at SCQF level 6 (12 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.*

CORE SKILLS

There is no automatic certification of Core Skills or Core Skill components in this Unit. Opportunities for developing aspects of Core Skills are highlighted in Support Notes of this Unit.

There are opportunities in this Unit to develop aspects of the following Core Skills:

- ◆ *Problem Solving* at SCQF level 4
- ◆ *Working with Others* at SCQF level 4
- ◆ *ICT* at SCQF level 3
- ◆ *Numeracy* at SCQF level 4
- ◆ *Communication* at SCQF level 4

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

Demonstrate knowledge and understanding of terminology, techniques and practices used in producing and fixing fibrous plaster casts.

Performance Criteria

- (a) Identify and explain terminology related to the production of fibrous plaster cast
- (b) Identify and explain setting out techniques correctly
- (c) Identify and explain construction practices correctly

OUTCOME 2

Draw a cornice profile and construct a reverse running mould.

Performance Criteria

- (a) Produce an annotated drawing of a cornice profile to a prescribed scale in compliance with the current Building Standards (Scotland) Regulations.
- (b) Annotate drawings accurately in accordance with the current Building Standards (Scotland) Regulations.
- (c) Construct a reverse running mould to the given specifications using drawn profile.
- (d) Comply with current health and safety requirements during all work methods and activities.

OUTCOME 3

Run a reverse mould.

Performance Criteria

- (a) Prepare bench and fix running rules in accordance with the specification.
- (b) Form a muffle in accordance with the specification.
- (c) Select, proportion and mix materials correctly.
- (d) Produce core and run to a finish in accordance with the given specification.
- (e) Comply with current Health and Safety requirement during all work methods and activities.

National Unit Specification: statement of standards (cont)

UNIT Plastering: Producing and Fixing Fibrous Plaster Casts
(SCQF level 6)

OUTCOME 4

Produce fibrous plaster casts from reverse mould

Performance Criteria

- (a) Prepare reverse mould for casting following specifications
- (b) Select, proportion and mix materials correctly.
- (c) Finish cast lengths in accordance with the specification.
- (d) Comply with current Health and Safety requirement during all work methods and activities.

OUTCOME 5

Set out, fix and mitre fibrous casts to given area

Performance Criteria

- (a) Prepare and mark out wall and ceiling area to given specifications.
- (b) Measure, cuts and fix fibrous casts in accordance with the given specification.
- (c) Stop and mitre in accordance with the given specification.
- (d) Comply with current Health and Safety requirement during all work methods and activities.

EVIDENCE REQUIREMENTS FOR THIS UNIT

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

Evidence is required to demonstrate that the candidate has achieved this Unit to the standard specified in all Outcomes and Performance Criteria.

Written and/or oral recorded evidence is required to demonstrate that the candidate has achieved Outcome 1 to the standard specified in the Performance Criteria. Candidates will be required to demonstrate their knowledge of terminology, techniques and practices by defining terms, describing setting out techniques and identifying required construction practices. This assessment will take the form of a question paper and will be conducted under controlled, closed book supervised conditions.

Product Evidence is required to demonstrate that the candidate has achieved the drawing element of Outcome 2. Candidate will be required to produce an annotated drawing of a reverse cornice profile to the standards specified. Assessment should be conducted under controlled, supervised conditions.

National Unit Specification: statement of standards (cont)

UNIT Plastering: Producing and Fixing Fibrous Plaster Casts (SCQF level 6)

Product and performance evidence is required to demonstrate that the candidate has achieved Outcomes 2, 3, 4, and 5 to the standards specified in the Performance Criteria. Candidates will be required to constructing a reverse running mould, produce and fix fibrous plaster casts. Assessment of these Outcomes will be evidenced through observation of work processes and assessment of the completed work piece. Candidates must meet the given standards and tolerances during the practical assessment. An assessor observation checklist must be used to record this evidence. Assessment should be conducted under controlled, supervised conditions.

Outcomes 2, 3 and 4

Summary of standards (working towards industrial tolerances)	
Item	Measurement of standard
Profile detail	Draw accurately ± 2 mm
Transfers paper profile to metal	Fully glued and free from wrinkles/tears
Metal profile forming	Cut and file accurately ± 2 mm
Profile fixing	Suitable positioned and fully secured to stock
Stock	Trimmed back from profile to allow feed ± 3 mm
Slipper	Accurately cut to size, positioned and fixed square with stock ± 2 mm
Handle/brace	Securely fixed-stock/slipper 90° alignment
Muffle	Fully secured-average thickness 4 mm-6 mm
Material mixing/proportioning	Suitable consistency free from lumps/dry material
Coring out	Build up coats not to exceed 10 mm
Core run	Fully coated no hollows/misses
Core keyed	Evenly with no misses
Finished run	Straight ± 2 mm with no excessive blemishes or chattering along the length
Arrises of run	In line and sharp along the length
Reverse preparation	Three coats of shellac no misses and fully greased prior to casting
Cast reinforcement	Lath/hessian cut to size ± 2 mm

National Unit Specification: statement of standards (cont)

UNIT Plastering: Producing and Fixing Fibrous Plaster Casts
(SCQF level 6)

Outcomes 4 and 5

Summary of standards (working towards industrial tolerances)	
Item	Measurement of standard
Placement of reinforcement	Ceiling and wall edges
Material mixing/proportioning	Suitable consistency free from lumps/dry material
Removal of casts	Without damage
Cast face finish	Straight ± 2 mm with no excessive blemishes along its length and no reinforcement showing
Casts	Cut to required length ± 2 mm
Mitres	Cut to required length ± 2 mm
Setting out	Wall and ceiling lines struck ± 2 mm
Preparation of wall and ceiling	Fixing points located, marked, keyed and sealed with P.V.A.
Preparation of cast for fixing	Wall and ceiling edges of cast keyed and sealed with P.V.A.
Bed straight lengths in place	± 2 mm and fully bedded to background with no misses
Bed mitres in place	All members matching ± 2 mm and fully bedded to background with no misses allowing 10mm for stopping
Stopping	Wads placed in joints and filled to within 5mm of finished surface
Mitre finish	Inline and fully formed ± 2 mm

Summary of standards (working towards industrial tolerances)	
Item	Measurement of standard
Health and safety	Complies at all times
Risk assessment	Safety boots worn at all times Hard hat worn at all times High visibility vest worn at all times All other PPE as risk assessed
Method statement	Working area kept clean at all times Materials stacked safely at all times Tools handled correctly at all times Tools cleaned and stored safely at end of working day

National Unit Specification: support notes

UNIT Plastering: Producing and Fixing Fibrous Plaster Casts (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 80 hours.

GUIDANCE ON THE CONTENT AND CONTEXT FOR THIS UNIT

This Unit has been developed as a mandatory Unit in the Professional Development Award in Plastering at SCQF level 6.

The successful completion of this Unit will provide candidates with the required underpinning knowledge and skills relating to setting out techniques and construction practices associated with constructing a reverse running mould and produce and fix fibrous plaster casts.

This Unit should 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.

The Unit deals with constructing a reverse running mould and produce and fix fibrous plaster casts. It should be delivered as part of a structured programme of training and orientated to the context of the candidate's work and area of responsibility.

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 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.

GUIDANCE ON LEARNING AND TEACHING APPROACHES FOR THIS UNIT

The candidate is required to develop their ability to construct a reverse running mould and produce, fix and mitre fibrous plaster casts, running mould, run cornice in-situ and on bench work forming short breaks and mitres in a safe manner at all times and, therefore, it is anticipated that the majority of learning will take place in a workshop/site environment.

Practical demonstrations underpinned by effective questioning techniques should focus on key skills, construction practices, techniques and underpinning knowledge related to constructing a reverse running mould and produce and fix fibrous plaster casts. During the learning process, practical learning is fundamental as candidates must become proficient in terminology and construction practices relevant to constructing a reverse running mould and produce and fix fibrous plaster casts.

National Unit Specification: support notes (cont)

UNIT Plastering: Producing and Fixing Fibrous Plaster Casts (SCQF level 6)

Opportunities should be taken throughout delivery of this Unit to meet the requirements of generic Units of the Training and Assessment Programme including:

- ◆ Conform to General Workplace Safety
- ◆ Confirm Work Activities and Resources for the Work
- ◆ Develop and Maintain Good Working Relationships
- ◆ Confirm the Occupational Method of Work
- ◆ Conform to Efficient Working Practices
- ◆ Move and Handle Resources.

OPPORTUNITIES FOR CORE SKILL DEVELOPMENT

Components of the Core Skill of *Problem Solving* at SCQF level 4, such as Planning and Organising and Critical Thinking will be developed as candidates undertake this Unit. 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 will enhance the evaluation of efficient working practices.

There are opportunities for candidates to develop the Core Skill of *Working with Others* at SCQF level 4, particularly in Outcomes 2, 3, 4 and 5 as this practical assessment is to be carried out working in pairs. Candidates can agree responsibilities and provide support and information to each other during the assessments. After assessment, they should be encouraged to consider how effectively they supported each other.

Opportunities also arise for candidates to develop the Core Skill of *Information and Communication Technology* at SCQF level 3 by researching Health and Safety legislation affecting their area of work.

Numeracy at SCQF level 4 skills will be developed through the interpretation of information from 3 dimensional working drawings and the practical use of calculation and measuring scales required for teaching and learning assessments for Outcomes 2, 3, 4 and 5.

There will be opportunities for candidates to develop the Core Skill of *Communication* at SCQF level 4. Candidates will have the opportunity to develop written and/or oral communication skills for the knowledge part of the assessment for Outcomes 1 and 2. As candidates complete practical tasks, they should be expected to communicate with others using the correct terminology, tone and style suited to the workplace.

GUIDANCE ON APPROACHES TO ASSESSMENT FOR THIS UNIT

Centres may use the instruments of assessment which they consider to be most appropriate but are advised to use the plastering 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.

National Unit Specification: support notes (cont)

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The candidate's knowledge and understanding of terminology, techniques and construction practices of plastering will be assessed through a question paper.

Candidates will be required to produce one annotated scale drawings to meet the requirements of Outcome 2.

Candidates should be given as much practise as possible in producing and fixing fibrous plaster casts, prior to being set the assessment. Evidence will be gathered for Outcomes 2, 3, 4 and 5 through observation that the candidates have met the given standards and tolerances during the practical assessment. The TAP summary of standards observation checklist must be used to record this evidence.

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 e-checklists. 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)*.

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 our website www.sqa.org.uk/assessmentarrangements