



## National Unit Specification: general information

**UNIT** Plastering: Producing Plaster Piece Mould (SCQF level 6)

**CODE** F6S3 12

### SUMMARY

This Unit is suitable for candidates working towards a Modern Apprenticeship in Plastering and will develop the candidates craft skills in producing a plaster piece mould. This Unit is designed to provide candidates with competence in the use of tools and equipment in producing a plaster piece mould 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, in producing plaster piece moulds.

### OUTCOMES

- 1 Demonstrate knowledge and understanding of terminology, techniques and practices used in plaster piece moulding.
- 2 Produce a moulding for reproduction from a master mould.
- 3 Produce a plaster piece mould.
- 4 Produce a plaster cast from a prepared piece mould.

### 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.

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#### Administrative Information

**Superclass:** TG

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## **National Unit Specification: general information (cont)**

### **UNIT Plastering: Producing Plaster Piece Mould (SCQF level 6)**

#### **CREDIT VALUE**

1 credits 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.*

#### **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**

### **UNIT        Plastering: Producing Plaster Piece Mould (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, techniques and practices used in producing a plaster piece mould.

##### **Performance Criteria**

- (a) Identify and explain terminology related to producing a piece mould.
- (b) Identify and explain setting out techniques correctly.
- (c) Identify and explain construction practices correctly.

#### **OUTCOME 2**

Produce a moulding for reproduction from a master mould.

##### **Performance Criteria**

- (a) Prepare mould for casting to given specification.
- (b) Produce cast to given specification.
- (c) Construct a backing board and upright to receive the cast.
- (d) Set out and position cast to backing board to given specification.
- (e) Comply with current health and safety requirements during all work methods and activities.

#### **OUTCOME 3**

Produce a plaster piece mould.

##### **Performance Criteria**

- (a) Prepare cast/model for piece moulding to given specification.
- (b) Identify, select and produce pieces for piece mould to given specification.
- (c) Produce a plaster case to given specification.
- (d) Comply with current health and safety requirements during all work methods and activities.

#### **OUTCOME 4**

Produce a plaster cast from a prepared piece mould.

##### **Performance Criteria**

- (a) Prepare piece mould for casting.
- (b) Produce a plaster cast from piece mould to given specification.
- (c) Comply with current health and safety requirements during all work methods and activities.

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

**UNIT**      Plastering: Producing Plaster Piece Mould (SCQF level 6)

### **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 and performance evidence is required to demonstrate that the candidate has achieved Outcomes 2, 3, and 4, to the standards specified in the Performance Criteria. Candidates will be required to produce a plaster cast from a piece mould. Assessment of these Outcomes will be evidenced through observation of work processes and assessment of the completed work piece activities. Candidates must meet the given standards and tolerances during the practical assessment. An assessor's observation checklist must be used to record this evidence. Assessment should be conducted under controlled, supervised conditions.

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

### UNIT Plastering: Producing Plaster Piece Mould (SCQF level 6)

#### Outcomes 2, 3 and 4

<b>Summary of standards (working towards industrial tolerances)</b>	
<b>Item</b>	<b>Measurement of standard</b>
Prepare original mould	Mould is fit for purpose and fully cleaned
Material mixing/proportioning	Suitable consistency free from lumps/dry material
Cast reinforcing	Lath & scrim selected & cut to size $\pm 10$ mm
Materials poured	Vibrated to minimise air pockets & flush with strike-offs $\pm 3$ mm
Cast face	Cast free from air pockets, reinforcing and minimal blemishes
Model preparation	Cleaned without damage
Backing board & upright constructed	Base cut to given size $\pm 3$ mm, upright cut to given size $\pm 3$ mm and upright set at an angle of $90^\circ \pm 3$ mm and wadded to base
Model secured to base	Keyed surfaces with no gaps
Model sealed	3 coats of shellac each coat allowed to dry with no misses
Positioning of clay fences	Positioned as to eliminate undercuts
Pieces formed	Individually formed as required, splayed backs for ease of removal from case, minimum thickness 20 mm
Pieces preparation	3 coats of shellac each coat allowed to dry with no misses, greased fully with no misses. Pieces assembled around model for case production
Case reinforcing	Lath & scrim selected & cut to size $\pm 10$ mm
Material mixing/proportioning	Suitable consistency free from lumps/dry material
Case formed	Formed to given shape minimum thickness 20 mm
Case preparation	3 coats of shellac each coat allowed to dry with no misses, greased fully inside with no misses.
Mould assembled	Greased fully with no misses.
Cast reinforcing	Lath & scrim selected & cut to size $\pm 10$ mm
Materials poured	Vibrated to minimise air pockets & flush with strike-offs $\pm 3$ mm
Cast face	Cast free from air pockets, reinforcing and minimal blemishes
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 Plaster Piece Mould (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 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 producing plaster piece moulds.

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 producing plaster piece moulds. 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 producing plaster piece mould 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 producing plaster piece mould. During the learning process, practical learning is fundamental as candidates must become proficient in terminology and construction practices relevant to producing plaster piece mould.

## National Unit Specification: support notes (cont)

### UNIT            Plastering: Producing Plaster Piece Mould (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 and 4 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 will be enhanced 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 and 4.

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 Outcome 1. 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

Detailed assessment material for this Unit will be found in section 7 of the Plastering Training and Assessment Programme (TAP). 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.

The candidate's knowledge and understanding of terminology, techniques and construction practices of plastering will be assessed through a question paper and conducted under controlled, closed-book, supervised conditions.

## **National Unit Specification: support notes (cont)**

### **UNIT          Plastering: Producing Plaster Piece Mould (SCQF level 6)**

Candidates should be given as much practise as possible in producing a plaster piece mould, prior to being set the assessment. Evidence will be gathered for Outcomes 2, 3 and 4 through observation that the candidates have met the given standards and tolerances during the practical tasks/tests. The TAP summary of standards observation/operational checklist/record must be used to record this evidence. Assessment should be conducted under controlled, supervised conditions

#### **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](http://www.sqa.org.uk/assessmentarrangements)