



National Unit Specification: general information

UNIT Plastering: Producing and Fixing Plaster Enrichments from a Case Mould (SCQF level 6)

CODE F6SA 12

SUMMARY

This Unit is suitable for candidates working towards a Modern Apprenticeship in Plastering. This Unit is designed to provide candidates with competence in the use of tools and equipment to produce plaster enrichments from a case 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 and fixing plaster enrichments from a case mould.

OUTCOMES

- 1 Demonstrate knowledge and understanding of terminology, techniques and practices used in producing and fixing plaster enrichments from a case mould.
- 2 Produce annotated drawing for a range of plastering enrichments.
- 3 Produce a plaster case mould using flexible moulding compound.
- 4 Prepare and pour flexible moulding compound.
- 5 Produce plaster enrichments from a prepared case mould.
- 6 Prepare, fix and finish plaster enrichments.

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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CREDIT VALUE

1.5 credits at SCQF level 6 (9 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 plaster enrichments from a case mould.

Performance Criteria

- (a) Identify and explain terminology related to producing and fixing plaster enrichments from a case mould.
- (b) Identify and explain setting out techniques correctly.
- (c) Identify and explain construction practices correctly.

OUTCOME 2

Produce annotated drawings for a range of plaster enrichments.

Performance Criteria

- (a) Produce drawings for a range of plastering enrichments 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.

OUTCOME 3

Produce a plaster case mould using flexible moulding compound.

Performance Criteria

- (a) Set out and prepare original model to given specification.
- (b) Produce a plaster case to given specifications.
- (c) Comply with current Health and Safety requirement during all work methods and activities.

National Unit Specification: statement of standards (cont)

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OUTCOME 4

Prepare and pour flexible moulding compound.

Performance Criteria

- (a) Prepare melting compound to manufacturers instructions.
- (b) Pour compound using correct techniques to given specification.
- (c) Comply with current Health and Safety requirement during all work methods and activities.

OUTCOME 5

Produce plaster enrichments from a prepared case mould.

Performance Criteria

- (a) Select and prepare casting materials.
- (b) Produce plaster enrichments in accordance with specification.
- (c) Comply with current Health and Safety requirement during all work methods and activities.

OUTCOME 6

Prepare, fix and finish plaster enrichments.

Performance Criteria

- (a) Prepare background to receive enrichments.
- (b) Measure, cut, fix and finish enrichments in accordance with the given specification.
- (c) 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.

National Unit Specification: statement of standards (cont)

UNIT Plastering: Producing and Fixing Plaster Enrichments from a Case Mould (SCQF level 6)

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 range of plaster enrichments to the standards specified.

Product and performance evidence is required to demonstrate that the candidate has achieved Outcomes 3, 4, 5 and 6 to the standards specified in the Performance Criteria. Candidates will be required to produce and fix plaster enrichments from a case 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. Candidates can work in pairs during practical assessments.

Outcomes 2, 3 and 4

Summary of standards (working towards industrial tolerances)	
Item	Measurement of standard
Enrichments drawn to scale	Draw accurately ± 2 mm
Model preparation	Cleaned without damage
Backing board	Base cut to given size ± 3 mm
Model secured to base	Keyed surfaces with no gaps
Model sealed	3 coats of shellac each coat allowed to dry with no misses
Case reinforcing	Lath and scrim selected and cut to size ± 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.
Pouring holes/funnels	Identify and correctly position to allow the release of gases
Melting P.P.E.	Select appropriate P.P.E. according to manufacturer's instructions
Melting compound preparation	To manufacturer's instructions: cut into 25 mm cubes
Melt compound	To manufacturer's instructions : correct temperature
Pour melted compound	To manufacturer's instructions: correct temperature
Vinamould mould preparation	Vinamould cleaned and positioned correctly
Cast reinforcing	Lath and scrim selected and cut to size ± 10 mm
Material mixing/proportioning	Suitable consistency free from lumps/dry material
Cast face	Cast free from air pockets, reinforcing and minimal blemishes

National Unit Specification: statement of standards (cont)

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Outcomes 5 and 6

Summary of standards (working towards industrial tolerances)	
Item	Measurement of standard
Enrichment preparation	Enrichments cleaned and keyed
Enrichment background	Keyed and measured out to identify correct method of planting enrichments (stretching, pinching)
Enrichments fixed	Enrichments planted securely ± 2 mm
Enrichment mitres {internal, external}	Mitres in line ± 2 mm
Finished lengths	Smooth, clean and sharp

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 Plaster Enrichments from a Case 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 60 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 and fixing plaster enrichments from a case mould.

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 and fixing plaster enrichments from a case mould. 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 and fixing plaster enrichments from a case 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 and fixing plaster enrichments from a case mould. During the learning process, practical learning is fundamental as candidates must become proficient in terminology and construction practices relevant to producing and fixing plaster enrichments from a case mould.

National Unit Specification: support notes (cont)

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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

The Core Skill of *Problem Solving* at SCQF level 4 could 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 3, 4, 5 and 6 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 could be developed through the interpretation of information from drawings and the practical use of calculation and measuring scales required for assessment of Outcomes 2, 3, 4, 5 and 6.

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

Detailed assessment material for this Unit will be found in section 6 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.

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 and conducted under controlled, closed-book supervised conditions.

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

Candidates should be given as much practise as possible in producing and fixing plaster enrichments from a case mould, prior to being set the assessment. Evidence will be gathered for Outcomes 3, 4, 5 and 6 through observation that the candidates have met 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.

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