



National Unit specification

General information

Unit title: Producing and Fixing Plaster Moulding: An Introduction (SCQF level 4)

Unit code: DH2A 11

Superclass: TG

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Version: 02

Unit purpose

This Unit will be suitable for learners who have completed a practical Unit *Applying Skills of Cement or Plaster Work*. The Outcomes require the learner to use and care for a basic range of tools, materials and equipment whilst undertaking skilled tasks associated with the production and installation of plaster moulding. The attainment of these skills is an essential requirement for progressing to higher level skills within this area. Learners who achieve this Unit should feel confident in progressing to Units based solely on plasterwork when the range and level of work will be wider and more advanced.

Outcomes

On successful completion of the Unit the learner will be able to:

- 1 Construct a running mould for the production of a run plaster reverse mould.
- 2 Produce a run plaster reverse mould.
- 3 Prepare reverse mould and take a plaster cast.
- 4 Fix plaster moulding in position.

Credit points and level

1 National Unit credit at SCQF level 4: (6 SCQF credit points at SCQF level 4)

Recommended entry to the Unit

Access to this Unit is at the discretion of the centre. It would be preferable if the learner had completed progression Unit: *Applying External Cementwork: An Introduction*.

National Unit specification: General information (cont)

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Core Skills

Opportunities to develop aspects of Core Skills are highlighted in the Support Notes for this Unit specification.

There is no automatic certification of Core Skills or Core Skill components in this Unit.

Context for delivery

If this Unit is delivered as part of a Group Award, it is recommended that it should be taught and assessed within the subject area of the Group Award to which it contributes.

Equality and inclusion

This Unit specification has been designed to ensure that there are no unnecessary barriers to learning or assessment. The individual needs of learners should be taken into account when planning learning experiences, selecting assessment methods or considering alternative evidence.

Further advice can be found on our website www.sqa.org.uk/assessmentarrangements.

National Unit specification: Statement of standards

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(SCQF level 4)

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

Construct a running mould for the production of a run plaster reverse mould.

Performance Criteria

- (a) The selection and use of tools/equipment is correct.
- (b) Paper profile is transferred to zinc correctly.
- (c) Construction of the running mould is accurate.

Outcome 2

Produce a run plaster reverse mould.

Performance Criteria

- (a) The selection and use of tools/material/equipment is correct.
- (b) Bench surface is prepared correctly.
- (c) Materials are correctly gauged and mixed.
- (d) The run plaster reverse mould is produced in accordance with the specification.

Outcome 3

Prepare reverse mould and take a plaster cast.

Performance Criteria

- (a) The selection and use of tools, materials and equipment is correct.
- (b) The plaster reverse mould is prepared for casting in accordance with the specification.
- (c) The casting materials are prepared correctly.
- (d) The cast is produced in accordance with the specification.

Outcome 4

Fix plaster moulding in position.

Performance Criteria

- (a) The selection and use of tools, materials and equipment is correct.
- (b) The background is marked out, for the moulding, correctly.
- (c) The background is prepared for fixing correctly.

National Unit specification: Statement of standards (cont)

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Evidence Requirements for this Unit

Evidence is required to demonstrate that learners have achieved all Outcomes and Performance Criteria.

Learners must adhere to relevant Health and Safety regulations and legislation relating both to working practices within the construction environment, as well as those specific to any practical task they are requested to carry out (such as emphasising the importance of selecting and using the correct PPE at all times).

Outcome 1

Evidence of actual performance is needed to show the learner can follow instructions, select tools, materials and equipment, carry out basic drawing skills, transfer the profile to zinc, manufacture all component parts of a running mould and then constructing the mould — all within the stated tolerances and comply with correct safety regulations. Evidence of basic practical methodology on construction and component parts of the running mould is needed to test underpinning knowledge and understanding and will be gained in a holistic assessment covering the Unit.

Practical Exercise

The learner will be provided with instructions outlining the tasks to be undertaken, the performance required and the observations which will be made by the assessor during practical activities.

A checklist will be used to record the evidence.

Outcome 1 — Specification

- ◆ Paper profile transferred to metal accurately ± 3 mm
- ◆ Metal profile cut and filed to shape accurately ± 3 mm
- ◆ Timber stock trimmed back from metal profile $4 \text{ mm} \pm 3 \text{ mm}$
- ◆ Metal profile securely fixed to timber stock
- ◆ Slipper cut to correct size and fixed square with stock ± 3 mm
- ◆ Braces/handles fixed securely

Outcome 2

Evidence of actual performance is needed to show the learner can, follow instructions, select tools, materials and equipment, prepare bench surface for running and run a plaster reverse mould within the stated tolerances all consistently complying with current Health and Safety regulations. Evidence of basic practical methodology on preparing bench surfaces for running and to run a plaster reverse mould is needed to test the underpinning knowledge and understanding and will be gained in a holistic assessment covering the Unit.

National Unit specification: Statement of standards (cont)

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Practical Exercise — Length of run plaster reverse mould 800 mm minimum.

The learner will be provided with instructions outlining the tasks to be undertaken, the performance required and the observations which will be made by the assessor during practical activities.

A checklist will be used to record the evidence.

Outcome 2 Specification

- ◆ Surface of bench checked and defects corrected
- ◆ Running rules straight along length ± 3 mm
- ◆ Surface of bench sealed evenly
- ◆ Surface of bench greased evenly
- ◆ Nails fixed to bench in path of mould
- ◆ Mould run straight along length ± 4 mm
- ◆ No excessive blemishes or chattering along length
- ◆ Reverse mould cut square at both ends ± 3 mm

Outcome 3

Evidence of actual performance is needed to show the learner can, following instructions prepare a plaster reverse mould for casting, mix materials and produce plaster moulding within the stated tolerances while consistently behaving in a safe manner throughout all activities.

Evidence of basic practicable methodology on plaster reverse mould preparations together with mixing materials and casting techniques is needed to test underpinning knowledge and understanding and will be gained in a holistic assessment covering the Unit.

Practical exercise

The learner will be provided with instructions outlining the tasks to be undertaken, the performance required and the observations which will be made by the assessor during practical activities.

A checklist will be used to record the evidence.

Outcome 3 — Specification

- ◆ Reverse mould sealed evenly with no misses
- ◆ Stop ends correctly positioned and secured
- ◆ Reverse mould/stop ends oiled/greased evenly with no misses.
- ◆ Plaster gauged free from lumps and dry materials
- ◆ strike-offs kept clean and flush ± 3 mm
- ◆ cast removed without damage
- ◆ cast surface generally free from air pockets with minimal blemishes

National Unit specification: Statement of standards (cont)

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Outcome 4

Evidence of actual performance is needed to show the learner can set out, measure, cut and fix plaster moulding incorporating a range of angled mitre intersections within the stated tolerances while consistently behaving in a safe manner throughout all activities.

Evidence of basic practicable methodology on, cutting, fixing and mitring techniques is needed to test underpinning knowledge and understanding and will be gained in a holistic assessment covering the Unit.

Practical exercise

The learner will be provided with instructions outlining the tasks to be undertaken, the performance required and the observations which will be made by the assessor during practical activities.

A checklist will be used to record the evidence

Outcome 4 — Specification

- ◆ marking out is clear and accurate ± 5 mm
- ◆ moulding is cut to specified length ± 3 mm
- ◆ mitres cut to shape ± 5 mm
- ◆ background area suitably prepared for fixing
- ◆ cast fixed to background securely
- ◆ all joints and mitres to be filled in to match moulding profile
- ◆ finished surface to be smooth with members, generally clean and sharp

Satisfactory performance in the practical content of this Outcome will be based on the learner gaining all the above tasks to the tolerances stated together with complying with current health and safety regulations during practical activities.



National Unit Support Notes

Unit title: Producing and Fixing Plaster Moulding: An Introduction
(SCQF level 4)

Unit Support Notes are offered as guidance and 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 is designed to introduce the learner to skills required by craft persons working in the construction industry as plasterers. The Unit will focus on basic skills and associated tasks involved in the production and fixing of plaster panel moulding, including the manufacture and construction of the reverse running mould, the production and preparation of the reverse mould together with casting, cutting, fixing and mitring the moulding to specified dimensions. It is envisaged that many learners will have little or no experience of working with the range of tools, materials and equipment. Underpinning the practical skills is the need to ensure the learner appreciates the reasons for carrying out the tasks in the manner directed and the reasons for using specific tools, materials, equipment and personal protective equipment. Whilst it is imperative that all activities are carried out in compliance with relevant health and safety regulations it is intended that only a basic understanding is summatively assessed.

Corresponding to Outcomes 1 to 4.

Outcome 1

This Outcome requires the learner to transfer the profile shape (see working drawings) onto zinc by using a method best suited by each centre. The learner will be introduced to a wide variety of woodworking and metalworking tools. Tools likely to include, saw, chisel, hammer, nail punch, coping saw, and a selection of metalwork files. Materials likely to involve timber, zinc and nails. The learner should be made aware of the different methods of transferring the profile shape to zinc and the importance of the accuracy of the finished profile shape. Names/component parts of the running mould should be fully explained by the lecturer/tutor.

Outcome 2

The learner will be introduced to a variety of plastering tools for the preparation and production of the run plaster reverse mould. Tools likely to include sash tool, splash brushes, scrub, small tool, joint rule, gauging trowel and hammer. Materials likely to include release agent, PVA sealer and casting plaster. The learner should be made aware of accurate gauging and the consistency of materials together with Running Techniques to include the importance of the running rule/rod and the control of swelling by the lecturer/tutor.

National Unit Support Notes (cont)

Unit title: Producing and Fixing Plaster Moulding: An Introduction (SCQF level 4)

Outcome 3

This Outcome should enable the learner to develop practical skills in using hand tools during the bench work production of both a plaster reverse mould and lengths of panel moulding. Prior preparations of the reverse mould, stop-ends, mixing and placing of materials are of vital importance to the success of the operation. Methods of placing the materials, reinforcement, ruling off, together with techniques on cast removal and the importance of reverse mould cleaning after casting should be emphasised.

Outcome 4

This Outcome should enable the learner to develop practical skills in using hand tools during the setting out, cutting, fixing and mitring of plaster moulding. Both background and plaster moulding preparations in terms of key and suction together with different methods of fixing and geometrical setting out techniques are of vital importance to the success of the operation.

Guidance on approaches to delivery of this Unit

Recognised working practices should be fully explained, demonstrated and practiced including manual handling techniques, posture when using tools and methods of working in a clean and tidy manner. Where it is possible to do so, underpinning knowledge should be integrated with practical activities in the workshop or project area.

Formative assessment should inform the learner of his/her progress when emphasis should be placed on working accurately.

Guidance on approaches to assessment of this Unit

Centres may use the method of assessment which they consider to be most appropriate but are encouraged to use the Training Assessment Programme (TAP) developed centrally by SQA. It is expected that learners will have to demonstrate current knowledge and understanding of safe working practice and risk assessment methods, etc prior to being set the assessment tasks.

Knowledge and Understanding of the processes involved in *Producing and Fixing Plaster Moulding: An Introduction (SCQF level 4)* should be assessed before any practical assignments are carried out by learners. This will include assessment of a learner's ability to prepare the work area for laying modular pavement.

Practical assignments should be carried out under supervised conditions and recorded in an assessor observation/operational checklist. Assessments should confirm that a learner has the ability to safely lay modular pavement using designated machinery or equipment correctly and safely, whilst adhering to current statutory Health and Safety regulations and legislation.

National Unit Support Notes (cont)

Unit title: Producing and Fixing Plaster Moulding: An Introduction (SCQF level 4)

Adherence to current statutory working regulations and Health and Safety procedures will be observed during the practical exercise carried out by the learner towards all Outcomes.

Detailed assessment material for this Unit will be found in the relevant 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 TAP which has been developed centrally by SQA. Any other instruments of assessment used must be comparable to the TAP and have been prior verified.

Opportunities for 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 learner evidence and that conditions of assessment as specified in the Evidence Requirements are met, regardless of the mode of gathering evidence. The most up-to-date guidance on the use of e-assessment to support SQA's qualifications is available at www.sqa.org.uk/e-assessment.

Opportunities for developing Core and other essential skills

The Core Skill of *Problem Solving* at SCQF level 4 could be developed as learners undertake this Unit. Learners 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.

Numeracy at SCQF level 4 could be developed through measuring and costing exercises.

There will be opportunities for learners to develop the Core Skill of *Communication* at SCQF level 4. Learners will have the opportunity to develop Written and/or Oral Communication skills for the knowledge part of the assessment. As learners complete practical tasks, they should be expected to communicate with others using the correct terminology, tone and style suited to the workplace.

History of changes to Unit

Version	Description of change	Date
02	Clarification of Standards and updated to new Unit Specification Standard.	29/04/16

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General information for learners

Unit title: Producing and Fixing Plaster Moulding: An Introduction (SCQF level 4)

This section will help you decide whether this is the Unit for you by explaining what the Unit is about, what you should know or be able to do before you start, what you will need to do during the Unit and opportunities for further learning and employment.

This Unit is designed to introduce you to skills required by craft persons working in the construction industry as plasterers. The Unit will focus on basic skills and associated tasks involved in the application of plaster. Little or no experience is required of working with the range of tools, materials and equipment.

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 will be looked at in accordance with current safety codes of practice and regulations.

There will be a series of training exercises followed by some practical task based assessment and multi choice knowledge assessment. Completion of the Unit will provide you with the basic skills necessary to enable you to progress to more complex aspects of Plasterwork which in turn will further develop your skills and knowledge.

The Core Skill of *Problem Solving* at SCQF level 4 could be developed as you undertake this Unit. You 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.

Numeracy at SCQF level 4 could be developed through measuring and costing exercises.

There will be opportunities for you to develop the Core Skill of *Communication* at SCQF level 4 as you will have the opportunity to develop Written and/or Oral Communication skills.