



National Unit Specification: general information

UNIT Stonemasonry: Cutting an Ovolo Moulding to Ashlar Stop
(SCQF level 6)

CODE F6PT 12

SUMMARY

This Unit is suitable for candidates working towards a Modern Apprenticeship in Stonemasonry and will develop the candidates' craft skills in working an ovolo moulding with external mitre to an ashlar stop to a specified size. The Unit is designed to provide candidates with competence in the use of tools to enable them to apply these skills in the workplace. It is also designed to enable candidates to develop their skills and understand and use of Stonemasonry terminology, techniques and practices.

OUTCOMES

- 1 Produce a scale drawing of ovolo mouldings and fillets.
- 2 Take off details and dimensions from a drawing to produce a template.
- 3 Apply and scribe on template and cut straight through ovolo mould with fillets.
- 4 Apply and scribe on template and cut return ovolo mould with fillets to external mitre and ashlar stop.

RECOMMENDED ENTRY

While entry is at the discretion of the centre, candidates undertaking the Professional Development Award in Stonemasonry 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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CREDIT VALUE

1 credit at SCQF level 6 (6 SCQF 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 the following Core Skills are highlighted in Support Notes of this Unit:

- ◆ *Problem Solving* 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

Produce a scale drawing of an ovolo moulding and fillets.

Performance Criteria

- (a) Ovolo moulding and Fillets are correctly identified on drawing.
- (b) The drawing is produced to the prescribed scale.
- (c) The drawing is in compliance with British Standard.

OUTCOME 2

Take of details and dimensions from a drawing and use tools, equipment and materials to produce a template.

Performance Criteria

- (a) Transfer information and dimensions from a drawing onto template material.
- (b) Produce template is in accordance with the specification.
- (c) Comply with current Health and Safety legislation during all work methods and activities.

OUTCOME 3

Apply and scribe on template and cut straight through ovolo mould with fillets.

Performance Criteria

- (a) Apply and scribe round template on stone in accordance with the specification.
- (b) Cut fillets in accordance with the specification.
- (c) Cut straight through ovolo mould in accordance with specification.
- (d) Comply with current Health and Safety legislation during all work methods and activities.

NATIONAL UNIT SPECIFICATION; Statement of standards (cont)

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OUTCOME 4

Apply and scribe on template and cut return ovolo mould with fillets to external mitre and ashlar stop.

Performance Criteria

- (a) Apply and scribe round template in accordance with specification.
- (b) Cut fillets to external mitre and ashlar stop in accordance with specification.
- (c) Cut return ovolo moulding to external mitre and ashlar stop in accordance with specification.
- (d) Comply with current Health and Safety legislation during all work methods and activities.

EVIDENCE REQUIREMENTS FOR THIS UNIT

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

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

Product evidence is required to demonstrate that the candidate has achieved Outcome 1 to the standards specified in the Performance Criteria. Candidates will be required to draw an ovolo moulding and fillets.

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 hew an ovolo moulding and fillets with return to ashlar stop.

Assessment of these Outcomes will be evidenced through observation of work processes and assessment of the completed workpieces. Candidates must meet the given standards and tolerances during the practical assessments. An assessor observation checklist must be used to record this evidence. Assessment should be conducted under controlled, supervised conditions.

Candidates must:

- ◆ Produce drawing of an ovolo moulding and fillets.
- ◆ Take of details & dimensions to produce a template.
- ◆ Correct Selection of tools.
- ◆ Correct use and selection of tools to produce an ovolo moulding as per specification.
- ◆ Form External mitre.
- ◆ Bring return moulding through to an ashlar stop.
- ◆ Work in fillets as per specification.
- ◆ Adopt the correct sequencing for hewing stone.
- ◆ Finished stone to measure 350 mm x 300 mm on face and 200 mm thick (Naturally bedded).

National Unit Specifications: statement of standards (cont)

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Throughout all of the practical elements of this Unit candidates must:

- ◆ Select, use, clean and store appropriately all tools used.
- ◆ Work in accordance with the current health and safety legislation.

The evidence will be produced on several assessment occasions and should be carried out under supervised conditions. Candidates must be observed in the attainment of all Outcomes and Performance Criteria in the statement of the standards. An assessor observation checklist must be retained as evidence that the candidate has achieved all Outcomes and Performance Criteria.

Outcomes 3 and 4

Summary of standards (working towards industrial tolerances)	
Item	Measurement of standard
Ovolo 50 mm	+/- 2 mm
Fillets 10 mm x 10 mm	+/- 2 mm
Template complies	+/- 1 mm
Spalls	Not exceeding 10 mm
Moulded surface	Straight to within +/- 2 mm
Mitre	+/- 2 mm
Ashlar stop	+/- 2 mm
Minimum stone size	350 mm x 300 mm x 200 mm
Risk Assessment	Safety Boots worn at all times Airstream Helmet worn at all times Boilersuit 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 Tools handled correctly at all times Tools Cleaned at Stored safely at the end of working day.

National Unit Specification: support notes

UNIT Stonemasonry: Cutting an Ovolo Moulding to Ashlar Stop (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 Stonemasonry at SCQF level 6.

The successful completion of this Unit will provide candidates with the required underpinning knowledge and skills relating to the production of an ovolo moulding returned to an ashlar stop with external mitre.

The Unit should be offered to candidates from the construction and related service 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.

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 achievement of skills and underpinning knowledge required for this Unit will be assisted by the provision of information sources in the form of:

- ◆ oral and /or written instructions
- ◆ graphic and photographic materials
- ◆ technical information
- ◆ hands-on task on uses of tools on stone to create Ovolo moulding as set out in specification

The teaching approach should ensure the candidate gains the underpinning knowledge required for the Unit. Teachers/Lecturers should demonstrate practical activities step by step until the candidate is competent prior to attempting the task under assessment conditions. Effective questioning should be encouraged throughout, focusing on skills, Stonemasonry practices and underpinning knowledge related to cutting an ovolo moulding to ashlar stop. The requirement to adopt safe working practices and comply with safety legislation must be emphasised throughout. It is recommended that this Unit be delivered in order of Outcomes as the order stated in the Statement of Standards.

National Unit Specification: support notes (cont)

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

- ◆ Conform to General Workplace Safety
- ◆ Confirm Work Activities and Resources for 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.

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

Numeracy skills at SCQF level 4 will be developed through the interpretation of information from working drawing and the practical use of calculation and measuring scales.

GUIDANCE ON APPROACHES TO ASSESSMENT FOR THIS UNIT

Detailed assessment material for this Unit will be found in section 3 of the Stonemasonry 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 Stonemasonry 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 Stonemasonry will be assessed through a question paper.

Candidates should be given as much practice as possible in the use of tools required for cutting an ovolo moulding, prior to being set the assessment.

Evidence will be gathered for all Outcomes through observation that the candidates have met the given standards and tolerances during the practical assessment. An assessor observation checklist can be used to record this evidence.

National Unit Specification: support notes (cont)

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In order to allow candidates to achieve all Outcomes and Performance Criteria candidates should be given a clear brief detailing the nature of exercises involved.

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 on our website www.sqa.org.uk/assessmentarrangements