



National Unit specification: general information

Unit title: Art and Design: Architectural Model Making (SCQF level 6)

Unit code: F9WT 12

Superclass: TD

Publication date: September 2010

Source: Scottish Qualifications Authority

Version: 01

Summary

In this Unit candidates will develop the skills and techniques which will allow them to make a simple architectural model. Candidates will produce scale drawings from architectural plans before making a scale model, applying a range of finishing techniques.

This Unit is suitable for candidates who:

- ◆ wish to extend basic knowledge and skill in the production of architectural model making
- ◆ are undertaking a general programme of Art and Design Units

Outcomes

- 1 Produce scale drawings for a given architectural model.
- 2 Produce an architectural scale model to a given specification.
- 3 Apply finishing techniques to the architectural scale model.

Recommended entry

While entry is at the discretion of the centre, candidates would benefit from having previous experience of an Art and Design Course or Units.

Credit points and level

1 National Unit 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.*

General information (cont)

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Core Skills

Opportunities to develop aspects of Core Skills are highlighted in the support notes of this Unit specification.

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

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 scale drawings for a given architectural model.

Performance Criteria

- (a) Interpret prepared plans and prepared drawings for a simple architectural form.
- (b) Use scale and isometric/axonometric projections effectively.
- (c) Demonstrate attention to detail in the visual accuracy and precision of the scale drawings.
- (d) Use orthographic techniques where appropriate.

Outcome 2

Produce an architectural scale model to a given specification.

Performance Criteria

- (a) Interpret scale drawings.
- (b) Select and use materials and techniques effectively.
- (c) Use equipment effectively and safely.

Outcome 3

Apply finishing techniques to the architectural scale model.

Performance Criteria

- (a) Select and use colour and textural effects to enhance the visual effect of the architectural scale model.
- (b) Demonstrate accurate representation of architectural detailing to scale.
- (c) Use selected finishing materials and techniques safely.

National Unit specification: statement of standards (cont)

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Evidence Requirements for this Unit

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

Product evidence will be produced to demonstrate that candidates have achieved all of the Outcomes and Performance Criteria.

Candidates will produce a folio of work that includes:

- ◆ scale drawings developed from a negotiated set of architectural plans for a simple building. These will include orthographic views, isometric/axonometric projections and sectional details if applicable.
- ◆ a simple architectural scale model based on plan drawings which demonstrates accuracy in applied scale and effective materials handling skills
- ◆ an applied range of finishing techniques that complete the architectural scale model which includes colour texture and architectural detailing

The evidence for this Unit must be produced under open-book conditions through the delivery of the Unit, with progress monitored by teachers/lecturers on an ongoing basis. Teachers/lecturers will use an assessor observation checklist to record candidates' safe use of working practices during the practical components of the Unit.

National Unit specification: support notes

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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 is an optional Unit of the National Certificate in Art and Design at SCQF level 6. It can also be taken as a free standing Unit.

This Unit is designed to demonstrate the model making process used by artists and designers. Candidates will be expected to demonstrate the process from analysing and producing appropriate technical drawings to scale, to translating 2D drawings into a simple 3D model before selecting and applying simple finishing techniques. Candidates would benefit from having prior knowledge of the types of technical drawings required in the model making process to enable them to successfully achieve this Unit. Candidates should be allowed to select from a range of given architectural drawings at the outset of the project. The processes used should be those used by model makers but candidates should be encouraged to make a simplified model and should be expected only to use a limited range of finishing techniques and simple detail.

Guidance on learning and teaching approaches for this Unit

Teachers/lecturers should provide demonstrations, exemplars and class discussion to illustrate each of the stages of the design process. Candidates should work independently with support from the teacher/lecturer. Advice should be given and examples shown of the different techniques and methods used by model makers. A range of materials and tools should be made available to the candidates with clear instruction on their use alongside all health and safety instructions.

Outcome 1

Candidates should be supplied with a structured brief and asked to select from a set of architectural drawings from which they can carry out the initial drawing task. The brief should clearly indicate the number and types of technical drawings required (scale drawings, orthographic views, isometric/axonometric projections, sectional details as required). Candidates should be guided and supported throughout the production of the drawing work by teachers/lecturers.

Outcome 2

Candidates must translate their 2D scale drawings into a simple architectural model. Demonstration should be given with regard to construction techniques and the use of available model making materials. Candidates should be made aware of the current relevant health and safety issues involved at this stage. Emphasis should be placed on the skill and precision in construction, use of appropriate scale and keen attention to replicating to scale basic architectural detail.

National Unit specification: support notes (cont)

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Outcome 3

Demonstrations and examples should be given covering the range of finishing techniques required in the making of a simple architectural model. Candidates should be given the opportunity to experiment before applying techniques to their own model. The finishing techniques should demonstrate skill in the selection and application of colour and texture with accurate representation of basic architectural detail. The final model should be retained as part of the folio of work.

Opportunities for developing Core Skills

Candidates may have opportunities to develop aspects of the Core Skill of *Communication* through teacher/lecturer led group discussions and presentation of work.

Candidates may have opportunities to develop aspects of the Core Skill of *Problem Solving* during each stage of the creative model making process.

Candidates may have opportunities to develop aspects of the Core Skill of *Numeracy* through the use and interpretation of scale and accuracy in measurements required by the construction process.

Guidance on approaches to assessment for this Unit

A suitable instrument of assessment for this Unit would be a practical exercise(s). The Outcomes may be assessed on an individual basis or a combined assessment may be used to cover all three Outcomes.

If holistic assessment is being used, the brief should indicate the scope of the activity and provide realistic timescales for completion of the activity.

Teachers/lecturers must be satisfied that the evidence submitted is the work of individual candidates. Although group work may be used as a learning and teaching approach, any work that contributes to candidate assessment evidence must be carried out on an individual basis to ensure authenticity.

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)*.

National Unit specification: support notes (cont)

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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

History of changes to Unit

Version	Description of change	Date

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