



National Unit specification: general information

Unit title: Art and Design: Architectural Model Making 2 —
(SCQF level 6)

Unit code: F9WV 12

Superclass: TD

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Version: 01

Summary

In this Unit candidates will further develop the skills and techniques used by architectural model makers through the production of a fully rendered scale model developed from architectural drawings. This Unit gives candidates the opportunity to produce scale drawings from architectural plans before making a scale model which is finished using appropriate rendering techniques.

This Unit is suitable for candidates who

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

Outcomes

- 1 Produce scale drawings from an architectural model making brief.
- 2 Produce a 3D scale model to an architectural model making brief.
- 3 Apply finishing techniques to an architectural model.

Recommended entry

Entry is at the discretion of the centre although candidates would benefit from having learned skills in technical drawing and basic model making or have attained the Unit D0HM 12 Art and Design: Model Making 1.

General information (cont)

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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.*

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 from an architectural model making brief.

Performance Criteria

- (a) Identify the requirements of the brief.
- (b) Use orthographic techniques in the production of drawings from plans.
- (c) Use isometric/axonometric projections in the production of drawings from plans.
- (d) Produce drawings to scale using given plans.

Outcome 2

Produce a 3D scale model to an architectural model making brief.

Performance Criteria

- (a) Interpret scale drawings.
- (b) Select and use materials effectively in the production of a scale model.
- (c) Use equipment effectively and safely in the production of a scale model.
- (d) Use selected construction techniques with accuracy and precision demonstrating architectural detail.

Outcome 3

Apply finishing techniques to an architectural model.

Performance Criteria

- (a) Select and use a variety of finishing materials and techniques.
- (b) Demonstrate skill and consistency in the application of colour and texture to an architectural model.
- (c) Accurately represent architectural detailing to scale.

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.

Written and/or oral evidence and 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 given set of architectural plans for an architectural building including orthographic views, isometric/axonometric projections and sectional details if applicable. The drawings produced will be accurate and demonstrate attention to detail and precision and be presented in an appropriate format
- ◆ a 3D scale model based on plan drawings. This will show the effective use of a variety of construction techniques and demonstrate the effective scaling of architectural form and detail
- ◆ the applied use of a range of finishing techniques to complete the 3D scale model. Colour use and the impact on distance and atmosphere will be evident and the candidate work will show sound materials handling in the application of the finishing techniques.

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 designers. Candidates will work from a brief which will instruct them to produce a series of scale drawings from a given set of architectural drawings for a building. Candidates would benefit from having prior knowledge of the type of technical drawings required before embarking on this Unit. Through the construction of the model it will allow candidates to translate their drawings into a scale 3D model demonstrating the techniques involved in model making. Each candidate will also develop skills in applying finishing techniques. Candidates' final model should be presented and retained as part of the folio.

Guidance on learning and teaching approaches for this Unit

The teacher/lecturer 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 wide range of materials and tools should be made available to the candidates with clear instruction on the health and safety issues.

Outcome 1

Candidates will be supplied with a brief and asked to select from a set of architectural drawings from which they can carry out the task. The brief should clearly indicate the number and types of drawings required such as orthographic views, isometric and axonometric projections and sectional details as required by the brief.

Outcome 2

Candidates should continue to work independently from the brief and translate their scale drawings into a 3D model. In producing the model emphasis should be placed on the skill and precision in construction, use of appropriate scale and keen attention to architectural detail. Demonstrations should be delivered to cover the range of techniques and materials used by model makers. Candidates should be made aware of the current relevant health and safety issues involved at this stage.

National Unit specification: support notes (cont)

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Outcome 3

Candidates should be given demonstrations in the variety of finishing techniques used by model makers. Experimentation should cover colour application, surface finishes, texture etc, colouring agents such as paints, mixed media, oil water inks air brush, stippling etc. Candidates should demonstrate skill in the selection and application of colour and texture with accurate representation of architectural detail. This should include the use of commercially produced architectural papers, mouldings etc as well as knowledge of the effects of aerial perspective on colour. 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 demonstrations.

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 practical exercises. The Outcomes may be assessed on an individual basis or a combined assessment may be used to cover all three Outcomes.

The brief should clearly indicate the scope of the activity, give guidelines to candidates on working to realistic timescales for completion of the key activities and should be constructed to provide candidates with some flexibility of choice and personalisation of the subject.

The teacher/lecturer should be satisfied that the evidence submitted is the work of the individual candidates. Although group work may be used as 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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