

Higher National Unit Specification

General information for centres

Unit title: Model Making: Finishing Skills

Unit code: DW7D 34

Unit purpose: This Unit is designed to introduce candidates to a range of practical finishing skills and specialist detailing used in professional model making.

On completion of the Unit the candidate should be able to:

- 1 Explain and demonstrate methods of surface preparation in a variety of model making materials.
- 2 Explain and demonstrate the application of surface finishes to a variety of model making materials.
- 3 Explain and demonstrate the processes involved in the production, selection and uses of model making support material.

Credit points and level: 1 HN Credit at SCQF level 7: (8 SCQF credit points at SCQF level 7*).

**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.*

Recommended prior knowledge and skills: Access to this Unit will be at the discretion of the centre. It is not necessary for candidates to have had previous experience of finishing skills, however, it is recommended that candidates have a basic understanding of colour, tone and texture terminology. This could be demonstrated by possession of NQ Mode making or other equivalent courses.

Core Skills: There are opportunities to develop the Core Skills of Communication and Problem Solving in this Unit, although there is no automatic certification of Core Skills or Core Skills components. Further details are provided in the support notes.

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.

Assessment: Evidence for this Unit will be generated by practical and presentation assessments. The Outcomes may be assessed on an individual basis or a combined assessment can be used to cover all three Outcomes.

Higher National Unit specification: statement of standards

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The sections of the Unit stating the Outcomes, knowledge and/or skills, and evidence requirements are mandatory.

Where evidence for Outcomes is assessed on a sample basis, the whole of the content listed in the knowledge and/or skills section must be taught and available for assessment. Candidates should not know in advance the items on which they will be assessed and different items should be sampled on each assessment occasion.

Outcome 1

Explain and demonstrate methods of surface preparation in a variety of model making materials

Knowledge and/or skills

- ◆ Materials
- ◆ Preparation
- ◆ Surfaces
- ◆ Workshop/Studio practice

Evidence Requirements

Candidates will need to provide evidence to demonstrate their knowledge and/or skills by showing that they can:

- ◆ produce a minimum of three examples of surface preparation
- ◆ provide a full description of the materials and processes involved in each example

The description of the materials and processes must be in the form of a minimum presentation of 250 words. All knowledge and/or skills items must be addressed over the three examples. All practical work must be carried out in class/workshop time under supervision to ensure authentication. Work produced out-with controlled conditions must be subject to authentication by the tutor.

Assessment guidelines

Candidates are required to demonstrate that they understand the factors involved in the application of surface preparation in a model making context.

The assessment of this Outcome, can be combined with Outcomes 2 and 3. An observation checklist may be used to ensure all aspects contained within the knowledge and skills section have been addressed.

Higher National Unit specification: statement of standards (cont)

Unit title: Model Making: Finishing Skills

Outcome 2

Explain and demonstrate the application of surface finishes to a variety of model making materials

Knowledge and/or skills

- ◆ Mixing and thinning
- ◆ Surface finishes
- ◆ Workshop/ Studio practice

Evidence Requirements

Candidates will need to provide evidence to demonstrate their knowledge and/or skills by showing that they can:

- ◆ produce a minimum of three examples of surface finishes
- ◆ provide a full description of the materials and processes involved in each example

The description of the materials and processes must be in the form of a minimum presentation of 250 words. All knowledge and/or skills items must be addressed over the three examples. All practical work must be carried out in class/workshop time, under supervision to ensure authentication. Work produced out-with controlled conditions must be subject to authentication by the tutor.

Assessment guidelines

Candidates will need to demonstrate that they understand the factors involved in the application of surface finishes in a model making context.

The assessment of this Outcome, may be combined with Outcomes 1 and 3. An observation checklist may be used to ensure all aspects contained within the knowledge and skills section have been addressed.

Outcome 3

Explain and demonstrate the processes involved in the production, selection and uses of model making support material

Knowledge and/or skills

- ◆ Detailing
- ◆ Costing
- ◆ Application

Higher National Unit specification: statement of standards (cont)

Unit title: Model Making: Finishing Skills

Evidence Requirements

Candidates will need to provide evidence to demonstrate their knowledge and/or skills by showing that they can:

- ◆ identify the procedures involved in the production and procurement of a range of model making support material
- ◆ produce a sample model incorporating at minimum of 3 elements from all Outcomes

The description of the materials and processes must be in the form of a short presentation of a minimum of 250 words. All knowledge and/or skills items must be addressed over the three examples. All practical work must be carried out in class/workshop time under supervision to ensure authentication. Work produced out-with controlled conditions must be subject to authentication by the tutor.

Assessment guidelines

Candidates will need to demonstrate that they understand the processes involved in the production, selection and uses of model making support material.

Assessment of this Outcome may be combined with Outcomes 1 and 2. An observation checklist may be used to ensure all aspects contained within the knowledge and skills section have been addressed.

Administrative Information

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| Unit code: | DW7D 34 |
| Unit title: | Model Making: Finishing Skills |
| Superclass category: | VF |
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Higher National Unit specification: support notes

Unit title: Model Making: Finishing Skills

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 may be delivered as a key building block of the 3D Design framework, providing the candidate with the underpinning skills in surface finishes required throughout the course. Within the model making profession, there is the requirement for high quality and variety of finishes. In many instances, methods must be devised to produce the desired effect. An element of exploration may be needed to devise required solutions. The role of the model maker is very much that of a problem solver and the required finishing skills must be flexible enough to cater for the diverse range of client requirements. These may range from precise technical pre-production prototypes to more expressive, textural props or special effects. The surface finish will have to be relevant in terms of visual appearance and suitably robust for the specific end use.

The content of this Unit requires the candidate to produce:

- ◆ a description of the processes carried out
- ◆ practical samples
- ◆ application of model making detail and accessories

Although this Unit has been designed as an integral part of the HNC/D: 3D Design, it may possible for other design courses to deliver this Unit.

Guidance on the delivery and assessment of this Unit

This Unit has been designed as a mandatory unit within the HNC/D 3D Design Group Award framework for candidates specialising in model making but could be utilised as an option for candidates in other disciplines. This Unit is intended to give the candidate an opportunity to experience the range of surface finishes expressed in the content and context section above. The practical nature of this subject area suggests that the most appropriate delivery would be by a combination of lectures, demonstrations, discussions and practical workshops. Exemplars should be available to reflect required standards.

Delivery should be in a logical sequence as suggested in the Outcomes.

Formative assessment should be ongoing throughout the Unit to ensure that students are completing work to a satisfactory standard.

Within all professional Design disciplines, there are many suitable proprietary brands and materials that are capable of achieving a satisfactory finish, and candidates should be made aware that there is room for variations and preferences. The need to keep up to date with new products should be highlighted. Candidates should appreciate that what they are being shown does not exhaust all possibilities and that the nature of the profession is that each new project can generate a new set of problems to which a solution must be devised. There may also be scope for raising green issues with finishing material in terms of recycling and pollution.

Higher National Unit specification: support notes (cont)

Unit title: Model Making: Finishing Skills

Candidates should carry out a number of test finishes for each example. This will emphasise the need to produce test finishes prior to application to a finished piece of work.

It may be possible to integrate the application of surface finishes with structures or construction samples produced in other units delivered in the same session.

Although this Unit could be delivered on a stand alone basis it would be beneficial if it was delivered as part of a group of units, introducing materials, tools, construction methods and finishing skills. It may be integrated with other Units within the course.

Opportunities for developing Core Skills

Candidates will identify and consider all components of the task, including available resources, and analyse the significance of each in order to identify an appropriate approach to work, developing a high level of problem solving skills. Evaluation of all aspects of proposed production, selection and use of model making support materials would be on-going, with assessor guidance as appropriate.

Although skills in communication are not formally assessed written and oral responses should be structured effectively, express essential ideas and information coherently and use a style suited to purpose. Written work should use accurate spelling and punctuation. Candidates should work towards a standard which would be acceptable in industry.

Open learning

The practical nature of parts of this Unit would make it difficult to deliver on an open learning or distance learning basis. However, it may be possible for candidates to access source information and complete written work electronically.

For further information and advice please refer to *Assessment and Quality Assurance for Open and Distance Learning (SQA, February 2001 — publication code A1030)*.

Candidates with disabilities and/or additional support needs

The additional support needs of individual candidates should be taken into account when planning learning experiences, selecting assessment instruments or considering alternative Outcomes for Units. For information on these, please refer to the SQA document *Guidance on Alternative Assessment Arrangements for Candidates with Disabilities and/or Additional Support Needs*, which is available on SQA's website: www.sqa.org.uk.

General information for candidates

Unit title: Model Making: Finishing Skills

This Unit is designed to introduce you to a range of practical finishing skills and specialist detailing used in professional model making.

Lectures, demonstrations and practical workshops will allow you to develop an understanding of the variety of materials on the market and what you may be expected to create.

Examples will be used to demonstrate what is acceptable within the industry.

There will be opportunities to explore methods of achieving particular finishes as, within the industry, you may have to devise solutions yourself, rather than work to precise directions.

In order to complete this Unit satisfactorily, you must produce sample pieces of work which demonstrate your ability to create a variety of surface finishes to an acceptable standard. You must also be able to explain how these samples have been achieved.

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

- 1 Explain and demonstrate methods of surface preparation in a variety of model making materials.
- 2 Explain and demonstrate the application of surface finishes to a variety of model making materials.
- 3 Explain and demonstrate the processes involved in the production, selection and uses of modelmaking support material.