

Higher National Unit Specification

General information for centres

Unit title: Model Making: Materials

Unit code: DW7E 34

Unit purpose: This Unit is designed to introduce candidates to a range of materials used in professional model making. The knowledge acquired in this Unit will provide the candidate with an understanding of the types and uses of materials required in the planning, construction and finishing processes involved in professional model making.

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

- 1 Describe a range of materials.
- 2 Analyse factors involved in the selection of materials.

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. Candidates should have an understanding of the model making/construction processes and terminologies. This could be demonstrated by possession of NQ Model making or other equivalent courses.

Core Skills: There are opportunities to develop the Core Skill of Communication at SCQF level 6 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: This Unit could be assessed by a single instrument of assessment which would require candidates to produce a report and respond to set questions based on a case study. It may be possible to implement two instruments of assessments. The first being a report; the second being a case study assessed under controlled conditions.

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

Describe a range of materials

Knowledge and/or skills

- ◆ Properties
- ◆ Procurement
- ◆ Health and Safety issues

Evidence Requirements

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

- ◆ describe the material characteristics in terms of name, raw product, size, form and finish
- ◆ outline the process of costing and procurement of materials
- ◆ present up to date health and safety information

The description of the above must be in the form of a presentation of a minimum 500 words or equivalent presentation. This assessment would be undertaken under open book conditions. Work produced out-with controlled conditions must be subject to authentication by the tutor.

Assessment guidelines

The assessment of this Outcome can be stand alone or integrated with Outcome 2. An observation checklist may be used to ensure the candidate has addressed all the knowledge requirements.

Outcome 2

Analyse factors involved in the selection of materials

Knowledge and/or skills

- ◆ Context
- ◆ Application

Higher National Unit specification: statement of standards (cont)

Unit title: Model Making: Materials

Evidence Requirements

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

- ◆ fitness for purpose
- ◆ preparation
- ◆ manipulation

The description of the above must be in the form of a presentation of a minimum 500 words or equivalent presentation. This assessment would be undertaken under open book conditions. Work produced out-with controlled conditions must be subject to authentication by the tutor.

Assessment guidelines

The assessment of this Unit can be combined with Outcome 1. An observation checklist may be used to ensure the candidate has addressed all the knowledge requirements.

Administrative Information

Unit code:	DW7E 34
Unit title:	Model Making: Materials
Superclass category:	VF
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Higher National Unit specification: support notes

Unit title: Model Making: Materials

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 delivered as a key building block, providing the candidate with an underpinning knowledge of model making materials required throughout the 3D Design Group Award and in the industry. The role of the model maker is very much that of a problem solver and their knowledge of materials and their application must be flexible enough to cater for the diverse range of client requirements.

Guidance on the delivery and assessment of this Unit

This Unit may be delivered as an introductory unit of the HNC/D 3D Design: Group Award. A selection of materials will be demonstrated, samples and case studies will be used as examples of application. This Unit is theory-based and candidates should use this opportunity to gain an in depth understanding of the materials. Selected materials should be current with industry standards, covering both natural and manmade. Where applicable, Health and Safety should be clearly outlined to the manufacturer's specification and current legislation. Environmental issues may be explored as part of this Unit. Knowledge gained in this Unit may be integrated within practical based Units throughout the 3D Design Group Award.

Opportunities for developing Core Skills

Candidates should be encouraged to develop techniques for accessing, reading and evaluating a range of information as reference sources for knowledge and skills. Instruction in the effective use of use of learning resources will allow candidates to access and evaluate appropriate books and web based data. Candidates need to be familiar with appropriate methods, which could be computer or paper based, to record, reference and organise notes and drafts. Although skills in communication are not formally assessed written responses should be structured effectively, express essential ideas and information coherently and use accurate spelling and punctuation.

Open learning

It may be suitable to deliver this Unit by open learning. It may be possible for candidates to access source information and complete written work electronically.

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: Materials

This Unit is designed to introduce you to a range of materials used in professional model making. The knowledge acquired in this Unit will provide you with an understanding of the types and uses of materials required in the planning, construction and finishing processes involved in professional model making. This will form the foundation of much of the practical and theoretical based units in this Group Award. Knowledge gained will be fundamental in your ability to plan and implement a given brief. You will also gain an insight into the complexities of professional practice.

This Unit will be delivered as an introductory Unit. You will be shown a selection of materials, samples and case studies as examples of application. This Unit is theory-based and you will use this opportunity to gain an in-depth understanding of materials used in model making. You may use a range of information retrieval skills to fulfil the Outcomes. Selected materials will be current with industry standards, covering both natural and man-made.

Where applicable, Health and Safety will be clearly outlined.

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

- 1 Describe a range of materials.
- 2 Analyse factors involved in the selection of materials.