



National Unit specification: general information

Unit title: Art and Design: Spatial Design: Construction Skills
(SCQF level 6)

Unit code: F9W1 12

Superclass: TJ

Publication date: September 2010

Source: Scottish Qualifications Authority

Version: 01

Summary

This Unit has a strong practical focus that enables candidates to gain experience in three-dimensional (3D) design construction skills through working to a 3D design brief. Candidates will research a given design brief developing exploratory ideas and concepts in two-dimensional (2D) and 3D before producing final 3D constructions.

This Unit is suitable for candidates who:

- ◆ have some experience or understanding of 2D and 3D design studies, basic construction skills and spatial design processes
- ◆ want to develop 3D design construction skills

Outcomes

- 1 Research a given design brief for 3D construction.
- 2 Develop exploratory ideas and concepts in 2D.
- 3 Develop preliminary concepts in 3D.
- 4 Produce finished 3D constructions.

Recommended entry

While entry is at the discretion of the centre, candidates would normally be expected to have a working knowledge of colour, the 3D design process and basic 3D construction skills.

General information (cont)

Unit title: Art and Design: Spatial Design: Construction Skills
(SCQF level 6)

Credit points and level

2 National Unit credits at SCQF level 6: (12 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

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

These opportunities are highlighted in the Support Notes of this Unit Specification.

National Unit specification: statement of standards

Unit title: Art and Design: Spatial Design: Construction Skills
(SCQF level 6)

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

Research a given design brief for 3D construction.

Performance Criteria

- (a) Identify the main requirements of the design brief.
- (b) Collate reference sources.
- (c) Develop a wide variety of initial ideas and concepts in 2D based on the collated research in response to the design brief.

Outcome 2

Develop exploratory ideas and concepts in 2D.

Performance Criteria

- (a) Select and use media and materials to effectively convey visual ideas and concepts.
- (b) Develop a varied range of ideas and concepts through the use of working drawings and sketches.
- (c) Demonstrate visual understanding and effective representation of 3D form.

Outcome 3

Develop preliminary concepts in 3D.

Performance Criteria

- (a) Select media, materials, tools and 3D construction techniques.
- (b) Use media, materials, tools and techniques effectively for developing ideas and concepts.
- (c) Produce simulated mock ups of selected 3D constructions.
- (d) Use media, materials, tools and 3D construction techniques observing safe working practices.

National Unit specification: statement of standards (cont)

Unit title: Art and Design: Spatial Design: Construction Skills
(SCQF level 6)

Outcome 4

Produce finished 3D constructions to a given brief.

Performance Criteria

- (a) Use selected media, materials, tools and 3D construction techniques with progressive refinement.
- (b) Demonstrate accuracy in interpreting the requirements of the brief.
- (c) Produce finished 3D constructions using accurate scale.
- (d) Demonstrate the effective use of colour, tone and texture.
- (e) Use media, materials, tools and construction techniques observing safe working practices.

Evidence Requirements for this Unit

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

Product evidence and written and/or oral evidence will be produced to demonstrate that candidates have achieved all of the Outcomes and Performance Criteria. Candidates will produce a folio of work in response to a given design brief that includes:

- ◆ the identification of the requirements of the design brief. This will include consideration of the target market/purpose, consideration of a thematic or visual focus for the 3D development work, timescales and the choice and use of media, techniques and scale
- ◆ an edited collection of relevant annotated primary and secondary visual and/or written collated research material that demonstrates the candidate's awareness of the requirements of the brief
- ◆ the development of a range of annotated initial ideas and/or concepts that show creativity and imaginative use of the collated research
- ◆ a range of experimental working drawings and sketches of 3D construction ideas that show the creative use of collated research material and sound drawing skills
- ◆ the selection of ideas for subsequent exploratory development in 3D that meet the requirements of the brief
- ◆ The production of 3D exploratory development work that shows awareness and understanding of the 3D construction process and a range of selected 3D media handling skills using a minimum of three construction techniques
- ◆ the production of 3D constructions in response to the brief. These will show effective media handling and representation of the 3D product (scale, tone, texture/colour, accuracy) and the progressive refinement of selected media handling and using a minimum of three construction techniques.

The Candidates will produce the work under open-book conditions, throughout the delivery of the Unit. Teachers/lecturers will use an assessor observation checklist to record evidence of candidates' safe working practices. All evidence must be retained, along with a copy of the brief.

National Unit specification: support notes

Unit title: Art and Design: Spatial Design: Construction Skills
(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 80 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.

If this Unit is being delivered as part of a programme of art and design based Units, then it is recommended that centres consider an integrated delivery approach with other Units in the award.

The Unit allows candidates to develop an individual and personalised response in an extended 3D construction skills project. The Candidates will research a given brief and produce ongoing development and final work in 3D form. This double credit Unit allows candidates to develop their understanding of the 3D design construction process. Candidates should receive ongoing tutorial support throughout delivery of the Unit.

Guidance on learning and teaching approaches for this Unit

This Unit should be delivered using a structured brief. The brief should direct candidates to collect, analyse and produce investigative research for a clearly defined 3D construction project.

The brief should provide sufficient detail and content to assist candidates in planning and implementing the project, while allowing for the development of an individual and personal response.

The requirements of the brief should allow for the planning and development of a project that supports the use and creative application of three or more construction techniques. The brief should encourage a personal approach to the development of practical work that encourages candidates to use and evaluate the features and potential of a variety of 3D media, materials and construction techniques. Teachers/lecturers should develop a brief providing guidance and inspiration that takes account of differing candidate abilities. The brief should allow for personalisation of the theme or focus for the activity and include timescales for completion of key stages to assist candidate planning and time management. The work produced should demonstrate that candidates have thoroughly explored and experimented creatively using the collated research evidence as a stimulus for the development of the final 3D constructions. Candidates can present their investigative research individually to the teacher/lecturer or as part of a peer group session thus allowing for the collective sharing of knowledge.

Teachers/lecturers should demonstrate the use, capability and potential of different approaches to the use of 3D media handling and construction techniques.

National Unit specification: support notes (cont)

Unit title: Art and Design: Spatial Design: Construction Skills
(SCQF level 6)

Teachers/lecturers can use group critiques and reflective discussions to support and guide the candidates through the creative development process.

The Candidates and teachers/lecturers should work collaboratively, selecting and organising the final folio of work for assessment. Candidates should be encouraged to annotate their experimentation and to use ongoing tutorial sessions and discussions, either individually or in group settings, to help them to reflect on their learning.

Opportunities for developing Core Skills

Investigation of the brief, the development process and the ongoing reflective evaluation of the developing practical work with reference to the requirements of the brief would allow candidates to develop aspects of the Core Skill of *Problem Solving*.

Through group discussions, collaborative research approaches (eg the Jigsaw technique) and on-going evaluation of the process the candidate would have the opportunity to develop aspects of the Core Skill of *Working with Others* and *Communication*.

Guidance on approaches to assessment for this Unit

A suitable instrument of assessment for this Unit would be a practical exercise(s). Candidates should be provided with clear instructions on the assessment requirements for this Unit.

Outcome 1

Assessment of Outcome 1 requires the collation and presentation of investigative research. This can be formatively assessed through teacher/lecturer or peer presentation. Candidate feedback in either written and/or oral format may further support this process. Questioning techniques and/or group presentation could be made use of here and would allow for shared learning.

Outcomes 2 and 3

In Outcomes 2, and 3 teacher/lecturer and/or peer critiques can be given throughout the development process. All developing ideas/concepts should be retained as part of the ongoing folio of work. This work should be assessed in relation to the personal enquiry made by candidates and their ability to develop creative ideas/concepts in response to the brief. The applied use of media, materials and techniques should demonstrate an inquisitive, exploratory mind. It is expected that all experiments and approaches may not always work but the ability to self-reflect and comment on the personal learning should be taken into account.

National Unit specification: support notes (cont)

Unit title: Art and Design: Spatial Design: Construction Skills
(SCQF level 6)

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

History of changes to Unit

| Version | Description of change | Date |
|---------|-----------------------|------|
| | | |
| | | |
| | | |
| | | |
| | | |

© Scottish Qualifications Authority [year]

This publication may be reproduced in whole or in part for educational purposes provided that no profit is derived from reproduction and that, if reproduced in part, the source is acknowledged.

Additional copies of this Unit specification can be purchased from the Scottish Qualifications Authority. Please contact the Customer Contact Centre, telephone 0845 279 1000.