



National Unit specification: general information

Unit title: Architectural Drafting (SCQF level 6)

Unit code: H2V0 12

Superclass: TD

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Summary

In this Unit, candidates will be given the opportunity to develop drafting techniques to be applied throughout a variety of disciplines. Candidates will develop skills in orthographic drawing techniques to illustrate architectural concepts and technology with appropriate annotation. In addition, candidates will apply simple rendering techniques and be introduced to appropriate scaling for particular drawing types.

This is an optional Unit in the National Certificate (NC) in Architecture and Art at SCQF level 6 and the NC in Architecture and Interior Design at SCQF level 6, but is also available as a freestanding Unit.

Outcomes

- 1 Produce instrument aided orthographic views of a case study building in an architectural context.
- 2 Produce scaled construction details.
- 3 Apply symbols, line types, annotation and hatching patterns to orthographic views.

Recommended entry

While entry is at the discretion of the centre, it would be beneficial for candidates to have some prior knowledge of basic graphical communication skills and manual drafting techniques.

Credit points and level

1 National Unit credit 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 components in this Unit.

National Unit specification: statement of standards

Unit title: Architectural Drafting (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

Produce instrument aided orthographic views of a case study building in an architectural context.

Performance Criteria

- (a) Create a suitable drawing template and title sheet.
- (b) Produce floor plans of a case study to an appropriate scale.
- (c) Produce a site plan of a case study to an appropriate scale.
- (d) Produce three elevations of a case study to an appropriate scale.
- (e) Produce a cross sectional view of a case study indicating structural elements and indicative technology to an appropriate scale.

Outcome 2

Produce scaled construction details.

Performance Criteria

- (a) Produce an indicative foundation detail for a case study building to an appropriate scale.
- (b) Produce an indicative eaves detail for a case study building to an appropriate scale.

Outcome 3

Apply symbols, line types, annotation and hatching patterns to orthographic views.

Performance Criteria

- (a) Apply electrical and drainage symbols to site and floor plans.
- (b) Apply material hatching patterns to plan, elevation, sectional and detail views.
- (c) Annotate drawings by means of identification of materials, room types and drawing views.
- (d) Apply dimensioning to a given floor plan.

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 in the form of the production of a series of drawings is required.

For Outcome 1, candidates will produce:

- ◆ a suitable drawing template and title sheet
- ◆ a minimum of two floor plans, based on a case study to an appropriate scale
- ◆ a site plan of a case study to an appropriate scale
- ◆ three elevations of a case study to an appropriate scale
- ◆ a cross sectional view of a case study indicating structural elements and indicative technology to an appropriate scale

For Outcome 2, candidates will produce:

- ◆ an indicative foundation detail for a case study building to an appropriate scale
- ◆ an indicative eaves detail for a case study building to an indicative scale

For Outcome 3, using the drawings produced previously, candidates will apply:

- ◆ electrical and drainage symbols to the floor plans
- ◆ material hatching patterns to plans, elevation, sectional and detail views
- ◆ annotations to drawings by means of identification of materials, room types and drawing views
- ◆ dimensioning to floor plans

Evidence will be produced under supervised, controlled open-book conditions.

National Unit specification: support notes

Unit title: Architectural Drafting (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 40 hours.

Guidance on the content and context for this Unit

This is an optional Unit in the National Certificate (NC) in Architecture and Art at SCQF level 6 and the NC in Architecture and Interior Design at SCQF level 6, but is also available as a freestanding Unit.

For Outcome 1, candidates should begin by getting introduced to basic drawing equipment, drawing conventions and layouts before attempting any drawing work. Candidates should be encouraged to produce all drawings on standard title sheets and if necessary begin drafting very small, simple orthographic shapes leading to a full domestic building. The full domestic building may come from drawings provided by a tutor, investigative research or be a live case study, which would require candidates to produce a full survey of a building type. This particular task may be conducted in groups.

For Outcome 2, candidates will be required to produce construction details which will not be apparent from the building fabric if using a live case study building. In this instance, reference to technical literature, journals and books will be required in order to use the most appropriate details depending on methods of construction.

Outcome 3 will also require reference to drawing convention standards which will be utilised in order to complete appropriate electrical and services symbols. In addition, conventions must be used in order to assign the correct dimensioning standards and hatching patterns, the number of which will depend on the methods of construction.

Guidance on learning and teaching approaches for this Unit

Delivery could be supplemented with the use of site visits. Candidates could be allowed to participate in a measured survey of a property to use as a basis for assessment. As construction details/service runs are not always evident upon visual inspection, assumptions can be made based on technical literature and input from tutors is vital.

Design sketches, construction drawings, technical literature, British Standards and the Scottish Building Standards should be used extensively to ensure candidates understand the basic design and construction concepts.

Guidance on approaches to assessment for this Unit

It is recommended that this Unit is assessed holistically. Where doing so, it would be advantageous to ensure candidates are familiar with the basic principles of design and sketching, as well as familiarity with drawing equipment and instruments. It is recommended that candidates are shown examples of construction drawings early in the delivery of the Unit to demonstrate examples of good practice.

Evidence will be produced under supervised, controlled open-book conditions. Candidates should produce hard copies of all tasks to be retained as evidence.

National Unit specification: support notes (cont)

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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)*.

Opportunities for developing Core Skills

In this Unit candidates may have opportunities to develop aspects of the Core Skills of *Communication, Information and Communication Technology* and *Problem Solving*.

Communication may be developed through written and/or verbal reporting throughout.

Information and Communication Technology may be developed through the nature of the research and investigation.

Problem Solving may be developed through all Outcomes where candidates perform specific tasks that require a certain level of critical thinking, planning, and evaluating.

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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