

National Unit Specification: general information

UNIT	Computer Graphics (Intermediate 1)
CODE	D173 10
COURSE	Graphic Communication (Intermediate 1)

SUMMARY

This Unit is a mandatory Unit of the *Intermediate 1 Graphic Communication Course*, but can also be taken as a free-standing Unit.

The focus of the Unit is practical, introducing candidates to basic computer graphic skills associated with Computer Aided Graphics (CAG) systems which will be beneficial to them as they progress through any Course or vocation where a knowledge of Graphic Communication terminology and practical computer skills is required.

This Unit offers opportunities to gain knowledge and experience in the production of detailed orthographic and pictorial drawings using Computer-Aided Draughting (CAD) software. The candidate will also gain experience in the use of illustration, presentation and Desktop Publishing (DTP) software producing posters, leaflets, etc.

The Unit is suitable for those candidates wishing to build on previous experience of Graphic Communication or those candidates who have no previous qualifications or experience and wish to gain an introductory qualification as part of a general education or as a first step to more specialised study.

OUTCOMES

- 1 Produce dimensioned orthographic drawings and pictorial drawings of simple everyday objects using computer-aided draughting software in accordance with British Standards.
- 2 Produce computer presentation graphics using illustration and presentation software.
- 3 Produce a single page layout using desktop publishing software.
- 4 Demonstrate knowledge associated with computer graphics.

Administrative Information

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National Unit Specification: general information (cont)

UNIT Computer Graphics (Intermediate 1)

RECOMMENDED ENTRY

While entry is at the discretion of the centre, candidates would normally be expected to have attained the following, or equivalent:

- ◆ Standard Grade Graphic Communication at Foundation level

CREDIT VALUE

1 credit at Intermediate 1 (6 SCQF credit points at SCQF level 4*)

*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

Achievement of this Unit gives automatic certification of the following:

- ◆ Complete Core Skill Using Information Technology at SCQF level 4
- ◆ Core Skill Component(s) None

National Unit Specification: statement of standards

UNIT Computer Graphics (Intermediate 1)

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 the Scottish Qualifications Authority.

OUTCOME 1

Produce dimensioned orthographic drawings and pictorial drawings of simple everyday objects using computer-aided draughting software in accordance with British Standards.

Performance Criteria

- (a) Orthographic drawings produced are accurate in terms of projection, scale and overall size.
- (b) Pictorial drawings produced effectively represent the item in terms of detail and proportion.
- (c) Main dimensions on orthographic drawings are clear, appropriate and in accordance with the relevant British Standard.

OUTCOME 2

Produce computer presentation graphics using illustration and presentation software.

Performance Criteria

- (a) The presentation graphic incorporates appropriate illustration and presentation techniques and includes gradients and lettering.
- (b) The presentation produced is clear and effective in terms of its use of backgrounds, text and layout.

OUTCOME 3

Produce a single page layout using desktop publishing software.

Performance Criteria

- (a) The layout contains a body of text contained within at least one column.
- (b) The layout contains an imported graphic item.
- (c) The layout produced shows appropriate use of text style and integration of text and graphics.

OUTCOME 4

Demonstrate knowledge associated with computer graphics.

Performance Criteria

- (a) Common input, output and storage devices are identified correctly.
- (b) The uses of common input, output and storage devices are described correctly.
- (c) Software command/features are identified correctly.
- (d) The uses of software commands/features are described correctly.
- (e) The advantages of CAD/CAG over manual methods are described correctly.

National Unit Specification: statement of standards (cont)

UNIT Computer Graphics (Intermediate 1)

EVIDENCE REQUIREMENTS FOR THIS UNIT

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

For Outcomes 1, 2, and 3, product evidence is required in the form of a folio of work which will contain evidence that the candidate can produce:

- ◆ A dimensioned orthographic CAD drawing showing related views of a simple everyday object
- ◆ A pictorial drawing of a simple everyday object
- ◆ A hard copy of a presentation graphic, produced using illustration and presentation software, which incorporates appropriate illustration and presentation techniques from the list in the Appendix and includes gradients and lettering
- ◆ A single page DTP layout document containing a body of text within one or more columns and at least one imported graphic item. The text should be appropriate and should not be lorem ipsum or other irrelevant text

The evidence for the folio must be produced under supervised conditions to ensure that it is the candidate's own work. Work produced by following a directed approach, such as a step by step guide or wizard, is not valid for assessment purposes.

For Outcome 4, written and/or recorded oral evidence is required. The instrument of assessment will provide opportunities for all Performance Criteria to be fulfilled, by means of sampling across the range of the content of Outcome 4 in the Appendix. If a re-assessment is required, it should contain a different sample from the range of mandatory content contained within the Appendix and achievement can be decided by the use of a cut-off score. Each sample must include the following:

- ◆ Identify one of each of the following: input, output and storage devices taken from the mandatory content detailed in the Appendix
- ◆ Describe the use of one of each of the following: input, output and storage devices taken from the mandatory content detailed in the Appendix
- ◆ Identify three software commands/features taken from the mandatory content detailed in the Appendix
- ◆ Describe the use of three software commands/features taken from the mandatory content detailed in the Appendix
- ◆ Describe three advantages of Computer Aided Graphics over manual methods taken from the mandatory content detailed in the Appendix

The assessment for Outcome 4 should be carried out under controlled, supervised, closed-book conditions and should last no more than 15 minutes.

The standard to be applied and the breadth of coverage are illustrated in the National Assessment Bank items available for this Unit. If a centre wishes to design its own assessments for this Unit, they should be of a comparable standard.

