

NCEA Level 1 Assessment Specifications

General Information

Domain	Graphics
Level	1
Mode of Assessment	Portfolio submission
For Year	2009
Submission Date	4 November 2009

This document contains the assessment specifications for achievement standards 90037, 90038, 90039 and 90040.

Format of the assessments

Assessment will be in the form of a portfolio of evidence selected from a normal graphics programme. A portfolio is an organised collection of selected evidence that communicates the candidate's knowledge and understandings relevant to the external graphics standards the candidate has entered. Candidates should **select** only the material that represents **their best work for the externally assessed achievement standards for inclusion** in the portfolio.

The candidate's portfolio should not exceed 20 pages. The submission can be made up of individual sheets or a visual diary or a combination to total no more than 20 pages

No material submitted should exceed A2 (420 x 594mm) size.

The following presentation formats are **recommended** for 2009:

- visual diaries, if used, to be limited to 1
- laminated material, if submitted, limited to maximum of 4 pages.

The following are **not acceptable in 2009**:

- submission material contained in clear files
- an entirely laminated submission
- additional packaging, e.g. boxes
- models – only photographs are to be submitted

Management of the external assessment process is explained after the specific information for each achievement standard.

Special Notes

Candidates must develop their ideas within the context of a design brief. Given briefs may focus on (but are not limited to) such areas as:

- architectural or environmental design
- engineering or technological design
- media, multimedia or technical illustration design.

There must be some indication attached to the work that identifies the design topic or context, eg

- design brief
- title statement
- one sentence description.
- All constructions and setting up lines should remain as evidence for assessment.
- Instrumental drawings may include computer-generated drawings. If candidates wish to submit computer-generated drawings, they must include evidence of the design thinking/work that has lead to these drawings.
- Note that evidence for AS90037, must be in the form of freehand sketching, and digitally enhanced imaging must not be used.

Original copies

Original copies must be presented for assessment. Photocopies are not acceptable unless used in AS90040 (1.4) for rendering purposes, where the original drawing must also be submitted. Digital rendering is not appropriate for AS 90040 - see notes in specific information for this standard.

Specific Information for Individual External Achievement Standards

Achievement Standard Number	90037
Title	Produce freehand sketches that communicate own design ideas
Version	3
Number of Credits	3

Special notes

For this achievement standard, candidates will need to demonstrate that they can produce freehand sketches that communicate their own design ideas in response to a brief. The conceptual sketches do not have to be to presentation standard, but they must show the candidates design thinking. Candidates could be producing a variety of sketches during the year that show how they have generated and developed ideas in response to design brief situations.

Evidence for this achievement standard must be in the form of freehand sketching.

Drawings that have been instrumentally constructed or guided will not be accepted as evidence, except for some visual rays to vanishing points in a perspective sketch. Freehand crating to define the shape and proportion of sketches is appropriate but not essential at this level. Explanatory note 3 states that communication of ideas must be unassisted by the use of instruments. Therefore any assistance of electronic technologies to produce the sketch **will not** provide evidence for this standard.

Digitally generated or enhanced imaging is not considered to be freehand sketching.

Candidates will be required to produce 2D **and** 3D **freehand sketches** that form part of a design process and show ideas of their own design, such as functional and aesthetic details. A candidate’s level of performance will also be based on the way the candidate communicates the design ideas.

Communicate refers to the way in which a candidate graphically explores an idea demonstrating an ability to express the working, construction or appeal of their design.

To gain achievement with merit and achievement with excellence, sketches must be in proportion. This refers to the relationship of one part of a design to another so that it looks visually correct. Refer to page 17 of the document *Graphics Education: Guidelines for Years 9–13*.

To gain achievement with excellence, at least two different 3D methods must be used and clearly communicate the candidate’s own design ideas. Candidates must also present detailed freehand sketches that demonstrate construction and/or design features as appropriate of a design (refer explanatory note 2).

Design briefs must be structured to allow candidates to produce both 2D and 3D freehand evidence.

Achievement Standard Number	90038
Title	Construct and use geometrical shapes and solids to communicate design ideas
Version	2
Number of Credits	2

Special notes

For this achievement standard, candidates must demonstrate that they can construct and use geometric shapes and solids in a design context. The solids must be derived from the shapes used in the design. These shapes and solids are used to communicate design ideas from the design brief.

To gain achievement, candidates will construct evidence that communicates design ideas based on design brief situations. Candidates should select their best examples for assessment. **Class exercises and pre-printed worksheets are not appropriate evidence for this standard.**

Geometrical constructions **must be completed using a compass and ruler**, rather than set squares. It is possible to use a computer compass and ruler, to construct the geometrical shape and solid, but all construction of the geometrical shapes and solids must be evident. **All evidence of construction must be included and construction lines should be evident for both shapes and derived solids, regardless of the construction tool used.** True length lines and true shapes must be constructed.

For achievement with merit and excellence, constructions must be accurate.

For achievement with excellence, shapes and derived solids must clearly communicate the candidates design ideas and leave no doubt as to the intent of the design. This may be accomplished by the use of surface developments (nets), diagrams, annotations, 2D and 3D drawings and/or sketches.

Care is required in the utilisation of a Media design brief for this standard, as it may not generate a geometrical solid that can be derived from the shape (unless the generated outcome is a surface development of a package).

Achievement Standard Number	90039
Title	Produce instrumental multi-view working drawings to communicate own ideas
Version	3
Number of Credits	3

Special notes

For this achievement standard, candidates must demonstrate that they can produce working drawings in orthographic projection that include the use of symbols and conventions, to communicate their own design ideas in response to a design brief. Drawings must contain two or more relevant projected views. Candidates will be expected to produce working drawings in third angle Orthographic projection. **Evidence of projection must be included, and all construction lines should be evident.**

Evidence for this achievement standard must be produced during the year and show how candidates have communicated ideas based on design brief situations.

To gain *achievement with merit* and *achievement with excellence*, candidates must demonstrate that they can produce detailed multi view working drawings in third angle Orthographic projection **to scale and apply the graphic symbols and conventions appropriately for merit and precisely for excellence, to communicate their own design ideas.** Detailed drawings could include section views, auxiliary views, hidden detail and drawings that show more internal or external features or components of the design.

In this context, *scale* means in the same proportions as the original and to a recognised scale e.g. 1:1, 1:5 and not 1:9. For achievement with excellence, an additional projected third view must be appropriate, precise and clear.

Computer aided drawings are acceptable for this standard, however correct conventions (e.g. NZS/AS 1100 SET Technical Drawing Set) and projection lines must be shown and the evidence must be in response to a design brief.

The use of ink pens is appropriate. Line thicknesses need to be differentiated when using ink pens, and should not conceal construction lines.

A useful guide to determining the conventions used within this achievement standard can be found in *Technical Drawing for Candidates: SAA/SNZ HB1:1994*, by Standards Australia and Standards New Zealand (ISBN 0 7262 9196 X). Current codes of practice eg NZS /AS 1100 should be used to determine current drawing conventions.

Achievement Standard Number	90040
Title	Produce pictorial drawings using instruments and render these drawings to communicate own design ideas
Version	3
Number of Credits	4

Special notes

For this achievement standard, candidates will need to demonstrate that they can produce pictorial drawings using instruments and render these drawings, which communicate their own design ideas in response to a design brief.

Freehand sketching is not appropriate evidence for this standard.

Pictorial drawings that are acceptable as evidence for this standard are limited to Oblique, Isometric and Planometric (perspective drawings are not acceptable as evidence). It is however, acceptable to photocopy or trace the instrumental pictorial drawing and then render the photocopy. Both the original and the photocopy must be submitted as evidence.

For *achievement with merit*, candidates will need to justify the drawing method used in relation to the design and show effective tonal change, that is the consistent and accurate application of tonal change.

For *achievement with excellence*, the construction must be accurate and complex. Accuracy refers to precision, line intensity and line clarity, and complex constructions can be curved or oblique surfaces. The rendered drawing must clearly define shape, form, structure, material and texture of the design, where appropriate. Justification must include advantages and/or disadvantages of the **selected drawing method** used and must relate to their own design and not be just a generic description.

The main intent of this standard is to gauge the candidates' ability to **hand render** a pictorial drawing for presentation purposes, the use of digitally generated rendering is **not appropriate**. (See explanatory note 6)

Management of External Assessment

Portfolio construction

In October personalised candidate labels and individual A2 (420 x 594mm) plastic bags will be supplied for each candidate to submit their material for assessment in. Instructions for packaging, forwarding the portfolios to markers, and courier bags (per 6 - 8 candidates) will also be included.

The candidate labels and plastic bags supplied will be based on the school's student entry file. It is essential that schools ensure their Graphics student entry file is accurate by 1 August.

No material should exceed the actual size of A2.

A candidate's portfolio should not exceed 45 pages.

Original copies

Original copies should be presented for assessment. Photocopies are not acceptable unless used in AS90040 (1.4) for rendering purposes, where the original drawing must also be submitted.

Writer Assistance

Writer assistance is excluded from all external achievement standards. This is due to the nature of drawing and graphics. Any queries regarding this must be addressed to NZQA through the Principal's Nominee.

Teacher Assessment

The work presented for assessment should be free of teacher comments and/or marks/grades that may have been applied.

Authenticity

Candidates must provide material that is their own work and demonstrates their own ability for assessment purposes.

Teachers and candidates are required to validate candidate work by signing a declaration form that will be sent to schools by NZQA in the October mail out and will be available on

www.nzqa.govt.nz website.