

NQ Verification 2014–15

Key Messages Round 1

01

Section 1: Verification group information

Verification group name:	Design and Manufacture
Verification event/visiting information	Event and Visiting
Date published:	March 2015

National Courses/Units verified:

National 3	H22Y 73: Designing and Modelling
National 4	H22T 74: Design
National 4	H22V 74: Materials and Manufacturing
National 5	H22T 75: Design
National 5	H22V 75: Materials and Manufacturing
New Higher	H22T 76: Design
New Higher	H22V 76: Materials and Manufacturing

02

Section 2: Comments on assessment

Assessment approaches

The majority of centres had used the combined approach and submitted partial evidence which had been generated from a wide range of activities.

Assessment judgements

National 3

Designing and Modelling

AS1.1: Candidates must **extract** dimensions from given drawings; adding dimensions to a drawing is not sufficient to meet the Assessment Standard. The drawings can be generated by the candidate or be given to them by their assessor.

AS1.2: Candidates must **select** suitable materials, giving consideration to issues of sustainability; naming materials is not sufficient to meet the Assessment Standard.

National 4, National 5 and Higher

Materials and Manufacturing Unit

This Unit was verified by visiting verifiers and almost all judgements were reliable. There were minor issues with the finish on some models and the assembly of others. Candidates at National 5 must produce models which allow them the opportunity to display their assembly and finishing skills; very simple models may not be appropriate.

Design Unit

The judgements made for Outcome 3, Product Evaluation were generally reliable and reports produced by candidates at all levels were appropriate to the time available and detail required.

The majority of judgements made by centres for the other Outcomes were reliable. However, a number of judgements raised issues at National 4, National 5 and Higher:

AS1.4: Producing a specification

Specifications should become more detailed/specific as candidates progress through the levels of the Course. Many of the candidates produced 'specifications' which were too vague or generic for National 5 and Higher.

AS1.2: Research

Candidates should be aware of the purpose of the research, ie to produce a design specification which details the requirements of the proposal. Many candidates carried out inappropriate research which resulted in the weak specifications (AS 1.4).

AS1.5 (N4/N5), AS 2.3 (H): Idea Generation

Although there was an improvement in this area, a large number of candidates are still not demonstrating the **use** of idea generation techniques.

AS2.4 (H): Exploring and Refining

The weak specifications generated in AS1.4 made it difficult for a number of candidates to carry out the exploration and refinement required at this level.

03

Section 3: General comments

Centres are reminded of the following:

- ◆ 3D modelling is required at all levels.
- ◆ Graphics must be appropriate to the level of the Course.
- ◆ Higher candidates are required to justify their selection of factors and research techniques (AS1.1/1.2/3.1).

Centres are advised not to generate evidence for Outcomes 1 and 3 with the same activity. Although the skills used by candidates are the same for both

Outcomes they are used in a different context and attempting to do both with the same task often leads to the candidate being confused, ie they mix up an existing product with the analysis of a brief.

Centres are reminded of the importance of the specification. Candidates must be made aware that it is the focus of Outcome 1. Candidates must also have developed or have been given a detailed enough specification to allow them to carry out suitable development of a design proposal (Outcome 2).