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## **Achievement Standard**

Subject Reference Construction and Mechanical Technologies 2.22

**Title** Demonstrate understanding of advanced concepts used to

make products

Level 2 Credits 4 Assessment Internal

**Subfield** Technology

**Domain** Construction and Mechanical Technologies

Status Registered Status date 17 November 2011

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This achievement standard requires demonstrating understanding of advanced concepts used to make products.

## **Achievement Criteria**

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of advanced concepts used to make products.	Demonstrate in-depth understanding of advanced concepts used to make products.	Demonstrate comprehensive understanding of advanced concepts used to make products.

## **Explanatory Notes**

This achievement standard is derived from Level 7 of the Technology learning area in *The New Zealand Curriculum*, Learning Media, Ministry of Education, 2007; and is related to the material in the *Teaching and Learning Guide for Technology*, Ministry of Education at <a href="http://seniorsecondary.tki.org.nz">http://seniorsecondary.tki.org.nz</a>.

Further information can be found at <a href="http://www.technology.tki.org.nz/">http://www.technology.tki.org.nz/</a>.

Appropriate reference information is available in *Safety and Technology Education: A Guidance Manual for New Zealand Schools*, Ministry of Education at <a href="http://technology.tki.org.nz/Curriculum-support/Safety-and-Technology-Education">http://technology.tki.org.nz/Curriculum-support/Safety-and-Technology-Education</a>, and the Health and Safety in Employment Act 1992.

- 2 Demonstrate understanding of advanced concepts used to make products involves:
  - describing accepted conventions used in constructing products
  - explaining how accepted conventions support constructing products in a specific context

 explaining how accepted conventions are achieved through use of tools, techniques and materials in a specific context

explaining strategies used to manage safety in school workshops.

Demonstrate in-depth understanding of advanced concepts used to make products involves:

- discussing how accepted conventions guide constructing products in similar contexts
- explaining the differences between safe practice in classroom and industrial environments.

Demonstrate comprehensive understanding of advanced concepts used to make products involves:

- discussing how accepted conventions guide constructing products in diverse contexts.
- Advanced concepts are the accepted conventions used in established practice when constructing products, and may relate to such things as: drape, flush, parallel, perpendicular, offset, symmetry, array, tolerance, ease, press fit, clearances, taper, level, and plumb.
- 4 Products can be made from a range of materials. These materials may include but are not limited to wood, composites, metal, alloys, ceramics, plastics, glass, natural and synthetic fibres, yarns, fabrics, leather, and vinyl.
- 5 Conditions of Assessment related to this achievement standard can be found at <a href="http://ncea.tki.org.nz/Resources-for-aligned-standards/Technology/Level-2-Technology">http://ncea.tki.org.nz/Resources-for-aligned-standards/Technology/Level-2-Technology</a>.

## **Quality Assurance**

- 1 Providers and Industry Training Organisations must have been granted consent to assess by NZQA before they can register credits from assessment against achievement standards.
- Organisations with consent to assess and Industry Training Organisations assessing against achievement standards must engage with the moderation system that applies to those achievement standards.

Consent and Moderation Requirements (CMR) reference

0233