

## Achievement Standard

**Subject Reference** Generic Technology 1.13

**Title** Implement a multi-unit manufacturing process

**Level** 1      **Credits** 4      **Assessment** Internal

**Subfield** Technology

**Domain** Generic Technology

**Status** Registered      **Status date** 20 January 2011

**Planned review date** 31 December 2019      **Date version published** 17 November 2016

This achievement standard involves implementing a manufacturing process.

### Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> <li>Implement a multi-unit manufacturing process.</li> </ul>	<ul style="list-style-type: none"> <li>Implement a refined multi-unit manufacturing process.</li> </ul>	<ul style="list-style-type: none"> <li>Implement an effective multi-unit manufacturing process.</li> </ul>

### Explanatory Notes

- 1 This achievement standard is derived from Level 6 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 <http://seniorsecondary.tki.org.nz>.

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

Appropriate reference information is available in *Safety and Technology Education: A Guidance Manual for New Zealand Schools*, Ministry of Education at <http://technology.tki.org.nz/Curriculum-support/Safety-and-Technology-Education>, and the Health and Safety at Work Act 2015.

This standard is also derived from *Te Marautanga o Aotearoa*. For details of *Te Marautanga o Aotearoa* achievement objectives to which this standard relates, see the [Papa Whakaako](#) for the relevant learning area.

- 2 *Implement a multi-unit manufacturing process* involves:
- identifying a manufacturing process suitable for multi-unit manufacture of the technological outcome
  - implementing the manufacturing process by using selected resources and carrying out techniques in keeping with accepted practices, including safety and legal requirements.

*Implement a refined multi-unit manufacturing process* involves:

- implementing quality control procedures suitable for the manufacturing process procedures to ensure only units that meet the specifications are accepted.

*Implement an effective multi-unit manufacturing process* involves:

- using feedback from quality control to review and modify, where necessary, the manufacturing process, which leads to an improvement in the proportion of units meeting the specifications.

- 3 *A manufacturing process* enables the multi-unit production of a technological outcome. Selection of an appropriate manufacturing process requires students to consider the type of outcome, the resources and techniques to be used.
- 4 Students will use a defined technological outcome suitable for manufacture that has established manufacturing specifications.
- 5 Conditions of Assessment related to this achievement standard can be found at <http://ncea.tki.org.nz/Resources-for-Internally-Assessed-Achievement-Standards>.
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### Replacement Information

This achievement standard replaced AS90048.

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### 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.
- 2 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