

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 2014	Date version published	20 January 2011

This achievement standard involves implementing a manufacturing process.

Achievement Criteria

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

Explanatory Notes

- 1 This standard is derived from the Level 6 achievement objectives from 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, 2010 at <http://seniorsecondary.tki.org.nz>.

Appropriate reference information is available in *Safety and Technology Education: A Guidance Manual for New Zealand Schools*, Learning Media, Ministry of Education, 1998; and The Health and Safety in Employment Act 1992.

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

For resources relating to legal, ethical and moral responsibilities, refer to the Techlink website at <http://www.techlink.org.nz/IP/links.htm>.

- 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://www.tki.org.nz/e/community/ncea/conditions-assessment.php>.
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Replacement Information

This achievement standard replaced AS90048.

Quality Assurance

- 1 Providers and Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against achievement standards.
- 2 Accredited providers and Industry Training Organisations assessing against achievement standards must engage with the moderation system that applies to those achievement standards.

Accreditation and Moderation Action Plan (AMAP) reference

0233