

## Achievement Standard

<b>Subject Reference</b>	Generic Technology 1.1		
<b>Title</b>	Undertake brief development to address a need or opportunity		
<b>Level</b>	1	<b>Credits</b>	4
		<b>Assessment</b>	Internal
<b>Subfield</b>	Technology		
<b>Domain</b>	Generic Technology		
<b>Status</b>	Registered	<b>Status date</b>	20 January 2011
<b>Planned review date</b>	31 December 2014	<b>Date version published</b>	20 January 2011

This achievement standard involves undertaking brief development to address a student identified need or opportunity.

### Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> <li>Undertake brief development to address a need or opportunity.</li> </ul>	<ul style="list-style-type: none"> <li>Undertake detailed brief development to address a need or opportunity.</li> </ul>	<ul style="list-style-type: none"> <li>Undertake comprehensive brief development to address a need or opportunity.</li> </ul>

### Explanatory Notes

- This achievement standard is derived from Level 6 of the Technology learning area (Technological Practice strand) 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; the Health and Safety in Employment Act 1992; and in the *Technology Curriculum Support*, October 2010 that can be found at <http://www.techlink.org.nz/curriculum-support/pdfs/technology-curriculum-support-Oct-10.pdf>.

Further information about brief development can be found at <http://www.techlink.org.nz/curriculum-support/papers/practice/brief-dev/index.htm> and <http://www.techlink.org.nz/curriculum-support/indicators/index.htm>.

- 2 *Undertake brief development to address a need or opportunity* involves:
- identifying a need or opportunity as a result of exploring the given context and issue
  - reflecting consideration of the social and physical environment
  - reflecting key stakeholder's opinion
  - describing the outcome to be developed
  - identifying the physical and functional attributes needed for the outcome
  - producing a final brief comprised of a conceptual statement and specifications.

*Undertake detailed brief development to address a need or opportunity* involves:

- explaining how the need or opportunity is derived from the issue
- reflecting iterative consideration of the social and physical environment and key stakeholder's opinion
- describing the purpose of the outcome, within the intended environment
- explaining the physical and functional attributes needed for the outcome.

*Undertake comprehensive brief development to address a need or opportunity* involves:

- justifying why such an outcome should be developed
- justifying why the identified physical and functional attributes are needed for the outcome.

- 3 It is intended that students will explore a given context and issue provided by the teacher in order to identify a need or opportunity, and undertake a process of brief development resulting in the communication of the nature of an outcome that resolves the need or opportunity. Stakeholders must be accessible to students.

A *need* refers to an identified requirement related to a person, group or environment (social and physical).

An *opportunity* refers to an identified possibility related to a person, group or environment (social and physical).

- 4 An outcome for the purpose of this achievement standard is a conceptual design for an outcome and/or a technological outcome itself (prototype).

- 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 AS90046.

**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