Achievement Standard

Subject Reference	Generic Technology 3.9
Title	Demonstrate understanding of how the fitness for purpose of technological outcomes may be broadly interpreted

Level	3	**Credits**	4	**Assessment**	Internal

Subfield	Technology
Domain	Generic Technology

Status	Registered	**Status date**	4 December 2012
Planned review date	31 December 2020	**Date version published**	17 November 2016

This achievement standard involves demonstrating understanding of how the fitness for purpose of technological outcomes may be broadly interpreted.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
• Demonstrate understanding of how the fitness for purpose of technological outcomes may be broadly interpreted.	• Demonstrate in-depth understanding of how the fitness for purpose of technological outcomes may be broadly interpreted.	• Demonstrate comprehensive understanding of how the fitness for purpose of technological outcomes may be broadly interpreted.

Explanatory Notes

1   This achievement standard is derived from Level 8 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   *Demonstrate understanding of how the fitness for purpose of technological outcomes may be broadly interpreted* involves:
    • explaining why the judgement of a technological outcome's fitness for purpose may differ depending on the geographical and/or social setting, and may change over time
    • explaining fitness for purpose in the broadest sense and the implications of this for the design and development of technological outcomes.

    Demonstrate in-depth understanding of how the fitness for purpose of technological outcomes may be broadly interpreted involves:
    • discussing the value of using fitness for purpose in the broadest sense for evaluating existing technological outcomes
    • discussing the value of using fitness for purpose in the broadest sense to guide the design, development and evaluation of new technological outcomes.

    Demonstrate comprehensive understanding of how the fitness for purpose of technological outcomes may be broadly interpreted involves:
    • discussing the judgement of a technological outcome's fitness for purpose in the broadest sense and justifying this in relation to the era of development, and the geographical and social location.

3   Fitness for purpose in the broadest sense relates to the outcome itself as well as to the practices used to develop the outcome. Judgements may include:
    • considerations of the outcomes' technical and social acceptability
    • sustainability of resources used
    • ethical nature of testing practices
    • cultural appropriateness of trialling procedures
    • determination of life cycle, maintenance, ultimate disposal
    • health and safety.

4   Conditions of Assessment related to this achievement standard can be found at http://ncea.tki.org.nz/Resources-for-aligned-standards/Technology/Level-3-Technology.

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