

Achievement Standard

Subject Reference Generic Technology 3.10

Title Undertake a critique of a technological outcome's design

Level 3 **Credits** 4 **Assessment** External

Subfield Technology

Domain Generic Technology

Status Registered **Status date** 4 December 2012

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

This achievement standard requires undertaking a critique of a technological outcome's design.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> Undertake a critique of a technological outcome's design. 	<ul style="list-style-type: none"> Undertake an in-depth critique of a technological outcome's design. 	<ul style="list-style-type: none"> Undertake a comprehensive critique of a technological outcome's design.

Explanatory Notes

- 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 *Undertake a critique of a technological outcome's design* involves:
- explaining the concept of good design and why criteria for judging the quality of design change
 - explaining views of design and judgement criteria used to determine the quality of the design of technological outcomes
 - appraising the design of a technological outcome using design judgement criteria.
- Undertake an in-depth critique of a technological outcome's design* involves:
- discussing why contemporary judgement criteria are important for design decision making
 - evaluating the quality of the design of a technological outcome using design judgement criteria.
- Undertake a comprehensive critique of a technological outcome's design* involves:
- discussing the impact of judgement criteria on design decision making
 - justifying the evaluation of a technological outcome's design.
- 3 Judgement criteria may include: sustainability, accessibility, functionality, quality of manufacture, emotional resonance, endurance, social benefit, aesthetic quality, ergonomic fit, affordability.
- 4 Design decision making is influenced by the values, tastes and views held by individuals, groups and/or collectives.
- 5 Assessment Specifications for this achievement standard can be accessed through the Technology Resources page found at <http://www.nzqa.govt.nz/qualifications-standards/qualifications/ncea/subjects/>.
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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