

Achievement Standard

Subject Reference	Digital Technologies and Hangarau Matihiko 2.8		
Title	Use advanced processes to develop a digital technologies outcome		
Level	2	Credits	6
		Assessment	Internal
Subfield	Technology		
Domain	Digital Technologies		
Status	Registered	Status date	29 November 2018
Planned review date	31 December 2020	Date version published	29 November 2018

This achievement standard involves using advanced processes to develop a digital technologies outcome.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> Use advanced processes to develop a digital technologies outcome. 	<ul style="list-style-type: none"> Use advanced processes to develop an informed digital technologies outcome. 	<ul style="list-style-type: none"> Use advanced processes to develop a refined digital technologies outcome.

Explanatory Notes

- This achievement standard is derived 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 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/Technology-in-the-NZC/Safety-in-Technology-Education-revised-2017>, 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* outcomes to which this standard relates, see the [Papa Whakaako](#) for the relevant learning area.

2 *Use advanced processes to develop a digital technologies outcome* involves:

- using appropriate project management tools and techniques to plan the development of a digital technologies outcome
- decomposing the outcome into smaller components
- trialling the components of the digital technologies outcome
- testing that the digital technologies outcome functions as intended
- explaining relevant implications.

Use advanced processes to develop an informed digital technologies outcome involves:

- effectively using project management and version control tools and techniques to manage the development of a digital technologies outcome
- trialling multiple components and/or techniques and selecting those which are most suitable
- using information appropriately from testing and trialling to improve the functionality of the digital technologies outcome
- addressing relevant implications.

Use advanced processes to develop a refined digital technologies outcome involves:

- discussing how the information from planning, testing and trialling of components assisted in the development of a high-quality outcome.

3 Examples of *project management and version control tools and techniques* include:

- saving backup copies with a logical file naming system
- using collaboration tools
- using simple version control software applications
- using tools or systems to plan tasks and milestones
- adjusting key actions and tasks where appropriate

4 Examples of *relevant implications* include:

- social
- cultural
- legal
- ethical
- intellectual property
- privacy
- accessibility
- usability
- functionality
- aesthetics
- sustainability and future proofing
- end-user considerations
- health and safety.

5 Conditions of Assessment related to this achievement standard can be found at <http://ncea.tki.org.nz/Resources-for-Internally-Assessed-Achievement-Standards>.

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