

Achievement Standard

Subject Reference Technology 1.7

Title Describe the interactions between a technological innovation and society

Level 1 **Credits** 4 **Assessment** External

Subfield Technology

Domain Technology - General Education

Status Registered **Status date** 18 December 2007

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This achievement standard involves identifying key technological advance(s) underpinning an identified technological innovation, describing how societal factors have impacted on the technological innovation, and describing the impact of the technological innovation on society.

Achievement Criteria

| Achievement | Achievement with Merit | Achievement with Excellence |
|--|--|---|
| <ul style="list-style-type: none"> • Identify the key technological advance(s) underpinning an innovation. • Describe the impact of societal factors on the direction of the development of the technological innovation. • Describe the impact of the technological innovation on society. | <ul style="list-style-type: none"> • Explain the key technological advance(s) underpinning an innovation. • Explain the two-way interaction between the ongoing development of the innovation and society, and how these shape (or have shaped) the evolution of the innovation. | <ul style="list-style-type: none"> • Explain the key technological advance(s) underpinning an innovation. • Analyse the two-way interaction between the ongoing development of the innovation and society to determine the key events and their impact on the evolution of the innovation, both to date and in likely future scenarios. |

Explanatory Notes

- 1 This achievement standard is derived from *Technology in the New Zealand Curriculum*, Learning Media, Ministry of Education, 1995, Level 6, and *Hangarau i roto i te Marautanga o Aotearoa*, Te Tahuu o te Matauranga, 1999.

- 2 *Technological innovation* for this achievement standard refers to any technological outcome (product, system or environment) that influences the lives, lifestyles and environments of many individuals and communities. The *technological innovation* used for this achievement standard can be either recent or historical (covering a broader time span or area of interest), but must have had a significant impact on society.
- 3 In this achievement standard, a *societal factor* (and the use of the word 'society') is to be interpreted in the broadest sense to include environmental factors. Using this broad definition, societal factors that may influence the development of a technological innovation include:
- physical – geographical location, climate, natural and built environment
 - socio-political – local, regional and national government systems, urbanisation, economic structures
 - technological advances – miniaturisation of electronic components, new materials
 - socio-cultural – religious affiliations, gender, ethnicity.
- 4 The context could include both New Zealand and global situations.
- 5 *Explain* means to describe with reason(s).
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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

0226