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Achievement Standard

Subject Reference Generic Technology 1.11

Title Demonstrate understanding of basic human factors in design

Level 1 Credits 4 Assessment Internal

Subfield Technology

Domain Generic Technology

Status Registered Status date 20 January 2011

Planned review date 31 December 2018 Date version published 20 November 2014

This achievement standard requires demonstrating understanding of basic human factors in design.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate	Demonstrate in-depth	Demonstrate comprehensive
understanding of basic	understanding of basic	understanding of basic
human factors in design.	human factors in design.	human factors in design.

Explanatory Notes

This achievement standard is derived from Level 6 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 in Employment Act 1992.

- 2 Demonstrate understanding of basic human factors in design involves:
 - describing the human factors that need to be considered when designing a product, system or environment
 - explaining how personal preference, group preferences, style and trends may impact on the design of a product, system or environment
 - describing data gathering and analysis techniques that may be used when designing a product, system or environment.

Demonstrate in-depth understanding of basic human factors in design involves:

- explaining the human factors that need to be considered when designing a product, system or environment
- explaining how data gathering and analysis techniques may be used in the design of a product, system or environment.

Demonstrate comprehensive understanding of basic human factors in design involves:

- discussing why human factors identified for the design of a product, system or environment need to be considered
- discussing the suitability of data gathering and analysis techniques that may be used in the design of a product, system or environment.
- 3 Human factors include ergonomic and aesthetic factors that influence the design of products, systems and environments. These factors are supported by the use of anthropometric, psychological and sensory data gathering and analysis techniques.
- 4 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

- Providers and Industry Training Organisations must have been granted consent to assess by NZQA before they can register credits from assessment against achievement standards.
- 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