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 2014   **Date version published**   20 January 2011

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

Achievement Criteria

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

Explanatory Notes

1   This achievement standard is derived from the Level 6 achievement objectives 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, 2010 at http://seniorsecondary.tki.org.nz.

Further information can be found at http://www.techlink.org.nz.

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://www.tki.org.nz/e/community/ncea/conditions-assessment.php.

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   0233