Achievement Standard

Subject Reference   Digital Technologies 1.3

Title   Demonstrate understanding of usability in human-computer interfaces

Level   1   **Credits**   5   **Assessment**   External

Subfield   Technology

Domain   Digital Technologies

Status   Approved   **Status date**   March 2023

Planned review date   December 2028   **Date version published**   March 2023

Purpose Statement

Students are able to demonstrate understanding of usability in human-computer interfaces.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
• Demonstrate understanding of usability in human-computer interfaces	• Examine the usability of human-computer interfaces	• Evaluate the usability of human-computer interfaces

Explanatory Notes

1   *Demonstrate understanding of usability in human-computer interfaces* involves:
   • describing the purpose of human-computer interfaces
   • describing usability principles and their use in human-computer interfaces.

   Examine the usability of human-computer interfaces involves:
   • explaining how usability principles have been applied in human-computer interfaces
   • explaining the usability of human-computer interfaces in terms of usability principles.

   Evaluate the usability of human-computer interfaces involves:
   • comparing the usability of human-computer interfaces
   • applying usability principles to suggest improvements to human-computer interface usability.

2 For the purposes of this achievement standard, the usability of human-computer interfaces can be understood in terms of *usability principles*. Examples of *usability principles* could include:
- mātāpono Māori such as:
  - accurate use of te reo Māori
  - support for te reo Māori in tools such as spell checking
  - support for expression of tikanga and mātauranga Māori
- usability concepts such as:
  - internal and external consistency
  - accessibility
- Nielsen's usability heuristics.

3 Refer to the NCEA glossary for Māori, Pacific, and further subject-specific terms and concepts.

4 This achievement standard is derived from the Technology Learning Area at Level 6 of *The New Zealand Curriculum*: Learning Media, Ministry of Education, 2007.

Replacement Information

This achievement standard, AS92004, AS92005, and AS92007 replaced AS91877-AS91887.

Quality Assurance

1 Schools and institutions must have been granted consent to assess by NZQA before they can register credits from assessment against achievement standards.

2 Schools and institutions with consent to assess must engage with the moderation system that applies to those achievement standards.

Consent and Moderation Requirements (CMR) reference   0233