

## Achievement Standard

**Subject Reference** Mathematics and Statistics 2.8

**Title** Design a questionnaire

**Level** 2      **Credits** 3      **Assessment** Internal

**Subfield** Statistics and Probability

**Domain** Statistics

**Status** Registered      **Status date** 17 November 2011

**Planned review date** 31 December 2014      **Date version published** 17 November 2011

This achievement standard involves designing a questionnaire.

### Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> <li>• Design a questionnaire.</li> </ul>	<ul style="list-style-type: none"> <li>• Design a questionnaire, with justification.</li> </ul>	<ul style="list-style-type: none"> <li>• Design a questionnaire, with statistical insight.</li> </ul>

### Explanatory Notes

- 1 This achievement standard is derived from Level 7 of *The New Zealand Curriculum*, Learning Media, Ministry of Education, 2007; and is related to the achievement objective
  - carry out investigations of phenomena, using the statistical enquiry cycle:
    - conducting surveys
    - evaluating the choice of measures for variables and data collection methods used
    - using relevant contextual knowledge
 in the Statistics strand of the Mathematics and Statistics Learning Area. It is also related to the material in the *Teaching and Learning Guide for Mathematics and Statistics*, Ministry of Education, 2010 at <http://seniorsecondary.tki.org.nz>.
- 2 *Design a questionnaire* involves showing evidence of using each component of the questionnaire design process.

*Design a questionnaire, with justification* involves linking components of the questionnaire design process to the context and explaining relevant decisions made in the design process.

*Design a questionnaire, with statistical insight* involves integrating statistical and contextual knowledge relevant to the purpose of the survey throughout the design process.

- 3 The components of the questionnaire design process involve:
    - clarifying the specific information needs of the survey and the groups who will use the data
    - posing survey questions, considering sources of variation by
      - determining relevant variables
      - determining appropriate measures for each variable
      - using an appropriate range of question types
    - checking the survey questions by
      - carrying out a desk review
      - conducting a pilot survey(s) including collecting and recording data
    - refining the questionnaire based on the results of the pilot survey
    - documenting the design process including the draft and final questionnaire.
  - 4 Conditions of Assessment related to this achievement standard can be found at [www.tki.org.nz/e/community/ncea/conditions-assessment.php](http://www.tki.org.nz/e/community/ncea/conditions-assessment.php).
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### Replacement Information

This achievement standard replaced unit standard 12333.

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### 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