

Title	Estimate the solutions to number problems and make estimates of measurements in the workplace		
Level	1	Credits	2

Purpose	<p>People credited with this unit standard are able to estimate the solutions to number problems and make estimates of measurements, in the workplace.</p> <p>This unit standard is designed to provide candidates with mathematical skills and knowledge relevant to workplaces in Aotearoa/New Zealand.</p>
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Classification	Mathematics > Number
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Available grade	Achieved
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Guidance Information

1 Assessment notes

Candidate's evidence must be generated in their workplace and must specify the workplace context and the requirements for that workplace.

Candidate's evidence must be verified as authentic by a supervisor, mentor, manager, subject matter expert, or trainer. This evidence may be collected over a period of time.

Problems refer to workplace situations which must be solved using estimation.

Problems must:

- be of sufficient complexity for an estimation of the answer to be appropriate to the problem;
- involve a one-step solution (the solution is reached after a single calculation).

Measurements must include metric units and may also include imperial units.

In the estimation process, candidates must not use calculators, computers, or other technology.

2 Legislative requirements include:

Health and Safety at Work Act 2015.

Outcomes and performance criteria

Outcome 1

Estimate the solutions to number problems in the workplace.

Range three of – whole numbers, fractions, decimals (which may be money), percentages.

Performance criteria

- 1.1 Approximated numbers in working are stated.
- 1.2 Estimated solutions to the problems meet the requirements of the workplace.
- 1.3 Estimations are appropriate for the problems.

Outcome 2

Make estimates of measurements in the workplace.

Range three of – length, mass, volume, area.

Performance criteria

- 2.1 Estimates are made to a degree of accuracy appropriate to the workplace.
- 2.2 Units for estimates are appropriate to the workplace.

Replacement information	This unit standard replaced unit standard 20662 and unit standard 20663.
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	9 December 2010	31 December 2018
Rollover and Revision	2	18 September 2014	31 December 2018
Rollover and Revision	3	16 June 2016	31 December 2021
Review	4	22 August 2019	31 December 2021

Consent and Moderation Requirements (CMR) reference	0226
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.