

Title	Use formulae and equations to solve problems in the workplace		
Level	1	Credits	1

Purpose	<p>People credited with this unit standard are able to use formulae and equations to solve problems 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>
----------------	--

Classification	Mathematics > Algebra
-----------------------	-----------------------

Available grade	Achieved
------------------------	----------

Explanatory notes

1 Assessment notes

Calculations and problems must be relevant to the context of the candidate's workplace. Candidate's evidence 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.

A *problem* refers to a typical workplace situation which must be solved using formulae and equations.

Candidates may use calculators, computers, or other technology.

It is not expected that candidates should work with algebraic fractions. Strategies for solving equations such as 'guess, check, and improve' are acceptable.

2 Legislative requirements include: Health and Safety in Employment Act 1992.

Outcomes and evidence requirements

Outcome 1

Use formulae and equations to solve problems in the workplace.

Range evidence of two problems solved using substitution into formula and two problems solved using linear equations is required.

Evidence requirements

- 1.1 Word formulae are identified in relation to the problems.
- 1.2 Methods chosen are appropriate to the problems.
- 1.3 Solutions are consistent with the problems.

Planned review date	31 December 2014
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	3 August 1995	31 December 2013
Revision	2	26 November 1996	31 December 2013
Revision	3	1 November 1999	31 December 2013
Review	4	9 December 2010	N/A

Accreditation and Moderation Action Plan (AMAP) reference	0071
--	------

This AMAP can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Consent requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact NZQA National Qualifications Services nqs@nzqa.govt.nz if you wish to suggest changes to the content of this unit standard.