

Title	Use Pythagoras' theorem and trigonometry to solve problems related to right-angled triangles in the workplace		
Level	1	Credits	1

Purpose	<p>People credited with this unit standard are able to use Pythagoras' theorem and trigonometry to solve problems related to right-angled triangles 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 > Trigonometry
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Available grade	Achieved
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Guidance Information

- 1 Measurements, calculations, and problems must be relevant to the context of the candidate's workplace. Candidate's evidence must be generated in the workplace and must specify the workplace context and the requirements for that workplace.
- 2 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.
- 3 Assessment tasks may include diagrams.
- 4 The candidate must use:
 - Pythagoras' theorem to determine the lengths of both the hypotenuse and other sides of a triangle; and
 - trigonometry to determine both angles and lengths other than the denominator with at least two of sine, cosine, or tangent ratios.
- 5 Candidates may use calculators, computers, or other technology.
- 6 Legislative requirements include:
Health and Safety at Work Act 2015.

Outcomes and performance criteria

Outcome 1

Use Pythagoras' theorem and trigonometry to solve problems related to right-angled triangles in the workplace.

Performance criteria

- 1.1 Methods chosen are appropriate to the problems.
- 1.2 Solutions are consistent with the problems.

Planned review date	31 December 2021
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Status information and last date for assessment for superseded versions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
Review	3	23 November 1999	31 December 2013
Review	4	22 June 2004	31 December 2013
Review	5	9 December 2010	31 December 2018
Rollover	6	18 September 2014	31 December 2018
Rollover and Revision	7	16 June 2016	N/A
Rollover and Revision	8	22 August 2019	N/A

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>.

Comments on this unit standard

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council qualifications@waihangaararau.nz if you wish to suggest changes to the content of this unit standard.