

## Math\_L2 Interpret measurements in a construction environment

<b>Kaupae   Level</b>	2
<b>Whiwhinga   Credit</b>	2
<b>Whāinga   Purpose</b>	This skill standard recognises the skills to take and apply measurements in a construction environment. It contributes to qualification pathways across construction trades.

### Hua o te ako me Paearu aromatawai | Learning outcomes and assessment criteria

Hua o te ako   Learning outcomes	Paearu aromatawai   Assessment criteria
1. Use equipment to take and record task measurements.	a. Components are measured using equipment and methods suitable to the task.
	b. Measurements taken and recorded are accurate and consistent with requirements of the task.
2. Read and apply measurements in a construction environment.	a. Relevant measurements for a construction task are identified.
	b. Relationships and comparisons between numbers are accurately stated in context of the construction task.

### Pārongo aromatawai me te taumata paearu | Assessment information and grade criteria

#### Assessment specifications:

Candidate must be able to consistently take and apply measurements for familiar construction tasks in a construction environment.

A *construction environment* may be any environment involved in the modification, construction or maintenance of buildings, structures, or infrastructure assets.

Comparison refers to number comparison of two or more groups. For example, acceptable tolerances, temperature and drying times, information in manufacturers' specifications, actual measurements and working drawings.

Relationship refers to the connection between two numbers. For example, quantities and unit price, spreading rates, and ratios.

#### Ngā momo whiwhinga | Grades available

Achieved

#### Ihirangi waitohu | Indicative content

### Taking measurements

- Linear measurements.
- Temperature.
- Time.
- Angles, pitch, slope.
- Use of equipment.
- Units of measurement.
- Converting measurements – mm to m, minutes to hours, ml to l, g to kg to tonne.
- Cumulative measurements.
- Rounding.
- Estimation.

### Applying measurements

- Reading tables.
- Product Safety Data Sheets – temperature limits, application requirements, storage and handling.
- Cutting lists.
- Order list and material list requirements.
- Comparison (numerical comparison of two or more groups).
- Relationship (between two numerical variables).

### Project drawings

- Symbols.
- Drawing orientation and elevation.
- Identifying measurements, centres and spacings.
- Scales and ratios.
- Reading keys.

### Rauemi | Resources

Refer to the Core Construction Skills Guidance document which includes resources, definitions, and other information of relevance to this standard, available from [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz).

### Pārongo Whakaū Kounga | Quality assurance information

<b>Ngā rōpū whakatau-paerewa  </b> Standard Setting Body	Waihanga Ara Rau Construction and Infrastructure Workforce Development Council
<b>Whakaritenga Rārangi Paetae Aromatawai  </b> DASS classification	Planning and Construction > Construction Trades > Core Construction
<b>Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga  </b> CMR	0048

<b>Hātepe  </b> Process	<b>Putanga  </b> Version	<b>Rā whakaputa  </b> Review Date	<b>Rā whakamutunga mō te aromatawai  </b> Last date for assessment
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<b>Rēhitanga   Registration</b>	<type here>	[dd mm yyyy]	[dd mm yyyy]
<b>Rā arotake   Planned review date</b>	[dd mm yyyy]		

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz) to suggest changes to the content of this skill standard.