

## 40276 Evaluate floor substrate for surface preparation operations

<b>Kaupae   Level</b>	4
<b>Whiwhinga   Credit</b>	5
<b>Whāinga   Purpose</b>	<p>This skill standard recognises the skills required to evaluate the floor substrate for surface preparation operations.</p> <p>This skill standard aligns with the New Zealand Certificate in Flooring Surface Preparation (Level 4) [Ref: 4299].</p>

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

Hua o te ako   Learning outcomes	Paearu aromatawai   Assessment criteria
1. Examine floor substrate surfaces prior to surface preparation.	a. Physical and technical properties of substrates and substrate surfaces are assessed to identify if remedial repairs will be required.
	b. Observable signs of potentially contaminated, unsuitable, or hazardous substrates and substrate surface are identified and responded to.
2. Determine the remediation required to flooring substrate surfaces to be within acceptable tolerances for intended flooring operations.	a. Common issues in substrates and substrate surfaces are remedied within acceptable tolerances for carpet installation.
	b. Common issues in substrates and substrate surfaces are remedied within acceptable tolerances for resilient installation.
	c. Common issues in substrates and substrate surfaces are remedied within acceptable tolerances for coating application.

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

Assessment specifications:

Candidates must be capable of consistently evaluating timber and concrete substrates to identify remedial repairs required to the standard expected of commercial competence.

*Acceptable procedures* are documented in relevant Standards and industry best practice, job documentation, manufacturers' specifications, and workplace procedures.

*Commercial competence* refers to:

- performing the skill in a safe manner
- performing the skill to required industry standards
- performing the skill within a commercially viable timeframe
- repeating the skill on demand
- performing the skill without supervision
- applying the skill to other work.

*Industry standards* must reflect flooring industry best practice, workplace procedures, and be within acceptable tolerances as defined in New Zealand.

*Physical and technical properties of substrates and substrate surfaces* refers to level, fall, thickness, structural support, moisture content, fixings, surface integrity, stability, and cleanliness.

*Workplace procedures* refer to verbal and written information covering company policy, standard operating procedures, and job specific instructions.

Substrate preparation does not require asbestos removal, replacement of substrate framing, moisture treatment systems, or levelling of large surfaces. Legislative requirements and workplace procedures must be followed if asbestos is found.

Assessment must conform to workplace conditions and procedures and meet workplace health and safety requirements.

## **Ngā momo whiwhinga | Grades available**

Achieved.

## **Ihirangi waitohu | Indicative content**

### **Substrate assessment**

- Assessment of substrate to ensure it is solid.
- Assessment of substrate and surroundings for signs of moisture.
- Assessment of substrate for pH levels.
- Assessment of substrate for rotten or broken floorboards, and presence of borer.
- The impact of common issues such as unclear, contaminants, asbestos, required levels and falls of surface not met, unsound substrate, moisture in substrate, dust on substrate surface.
- Substrate tolerances for different floorcoverings and coatings.

### **Remediation of substrates**

- Mechanical abrading.
- Moisture control systems.
- Application of filling compounds.
- Replacing boards.
- Removing surface contaminants including adhesive, dust, paint, wax, oil, old rubber underlay residue or grease residue, bond breakers or curing compounds from concrete substrates.
- Use of straightedge or laser to measure smoothness and flatness of substrate.
- Application of repair and fine finishing compounds.
- Ramping engineered cement.

## **Rauemi | Resources**

Flooring Programme Guidance available from [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz).

Legislation, available from [www.legislation.govt.nz](http://www.legislation.govt.nz):

- Building Act 2004, Building Code
- Health and Safety at Work Act 2015
- Hazardous Substances and New Organisms Act 1996.

New Zealand Standards, available from [www.standards.govt.nz](http://www.standards.govt.nz):

- AS/NZS 2455.1:2007 *Textile floor coverings – Installation practice – General*
- NZS AS 1884:2013 *Floor coverings – Resilient sheet and tiles – Installation practices.*

Best practice guidelines, available from [www.floornz.org.nz](http://www.floornz.org.nz):

- FloorNZ. (2024). *Carpet Floor Coverings Planning and Installation*
- FloorNZ. (2024). *Resilient Floor Coverings Planning and Installation.*

### Pārongo Whakaū Kouna | 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 > Flooring
<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> Date	<b>Rā whakamutunga mō te aromatawai  </b> Last date for assessment
<b>Rēhitatanga  </b> Registration	1	28 November 2024	N/A
<b>Kōrero whakakapinga  </b> Replacement information	This skill standard replaced unit standard 32556.		
<b>Rā arotake  </b> Planned review date	31 December 2029		

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