

## 40168 Develop joinery detailing manufacturing documentation

<b>Kaupae   Level</b>	5
<b>Whiwhinga   Credit</b>	30
<b>Whāinga   Purpose</b>	<p>This skill standard recognises the skills required to analyse technical information and produce calculations to develop joinery detailing manufacturing documentation.</p> <p>This skill standard aligns with the New Zealand Diploma in Joinery Detailing (Level 5) [Ref: 5113].</p>

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

<b>Hua o te ako   Learning outcomes</b>	<b>Paearu aromatawai   Assessment criteria</b>
1. Analyse technical information and compliance requirements for joinery detailing manufacturing documentation.	a. Joinery construction methods, materials, and hardware specifications are analysed.
	b. Technical data for materials, equipment, and hardware specifications are analysed.
	c. Compliance requirements are analysed.
2. Produce calculations for joinery detailing manufacturing documentation.	a. Technology, geometric and mathematical principles are used in calculations.
	b. Site measurement calculations are accurately applied to joinery detailing manufacturing documentation.
	c. Calculations for tolerances, spacings and positioning of joinery components are produced.
	d. Calculations for quantities of materials and appropriate allowances for cutting lists are produced.
	e. Calculations are accurate and meet the requirements for the manufacture and assembly of joinery work and design software requirements.

3 Develop joinery detailing manufacturing documentation.	a. Information from the analysis of technical information and recommended improvements from evaluations are used to develop joinery detailing manufacturing documentation.
	b. Analysis of technical data is used for the development of cutting lists for joinery detailing manufacturing documentation.
	c. Analysis of joinery construction methods, materials, hardware specifications, are used to develop joinery detailing manufacturing documentation and meet manufacturing machine capabilities, assemble and site installation requirements.
	d. Local council requirements, by-laws, standards, and legislative and regulatory compliance requirements are interpreted and applied to joinery detailing manufacturing documentation.

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

#### *Assessment specifications:*

Evidence presented for assessment against this skill standard must be from a joinery manufacturing workplace and reflect professional competence confirmed by a person with current expertise in joinery detailing.

Professional competence refers to the ability to work independently to meet the ethical and professional expectations of industry and clients on dynamic and varied projects operating in a commercial environment.

Documentation refers to bill of materials, Computer Numerical Control (CNC) files, cutting lists, plans (site/shop/design drawings, schedules), workplace processes and procedures, material and component list for on-site assembly, producer statement.

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

Achieved.

#### **Ihirangi waitohu | Indicative content**

##### Technical Information

- Suitability of materials, structures, and construction methods.
- Technical data and research for joinery detailing manufacturing documentation.
- Technical information to develop specifications, and cutting lists.
- Requirements for joinery detailing documentation for manufacturing.

##### Calculations

- Application of geometric and mathematical principles for joinery manufacturing documentation.
- Application of a range of technology to perform calculations including the use of scientific calculators.
- Calculations for accurate site measurement information and application to joinery detailing work.

- Calculation of spacings and positioning of joinery components.
- Calculations to ensure layout accuracy of joinery detailing work.
- Material quantities and making the appropriate allowances.

#### Regulatory and legislative frameworks

- Joinery manufacturing documentation compliance with local council requirements, by-laws, standards, and legislative and regulatory frameworks.

#### Rauemi | Resources

Joinery Detailing Programme Guidance document 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	Manufacturing > Joinery > Core Skills
<b>Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga  </b> CMR	0073

<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
<b>Rēhitatanga  </b> Registration	1	26 September 2024	N/A
<b>Kōrero whakakapinga  </b> Replacement information	N/A		
<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) to suggest changes to the content of this skill standard.