

40093**Develop and make up patterns and templates for an advanced textiles project**

Kaupae Level	4
Whiwhinga Credit	10
Whāinga Purpose	<p>This skill standard is intended for people who want to learn how to manually make patterns and templates and mark out and cut material for a large or complex advanced textiles project.</p> <p>This skill standard can be used in programmes leading to the New Zealand Certificate in Advanced Textiles (Level 4) with strands in Industrial Textiles Fabrication, and Industrial Trimming [Ref: 5060].</p>

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

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Carry out measurements and calculations for patterns and templates for a large or complex advanced textiles project.	a. Carry out and record measurements in accordance with project instructions.
	b. Carry out calculations to estimate quantities of material required in accordance with project instructions.
	c. Check and confirm measurements and calculations against project instructions.
2. Mark out a pattern and template shape for a large or complex advanced textiles project.	a. Make calculations to enable marking out of pattern and template in accordance with project instructions.
	b. Develop required shape on the selected pattern and template material in accordance with project instructions.
	c. Mark out required shape on the selected pattern and template material in accordance with project instructions.

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
3. Make up a pattern and template for a large or complex advanced textiles project.	a. Fabricate pattern and template to the required shape and finish in accordance with project instructions.
	b. Mark and label pattern and template to identify its purpose and layout directions in accordance with workplace procedures.
	c. Complete documentation in accordance with workplace procedures.

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

Assessment specifications:

The evidence presented for assessment against this skill standard must be consistent with safe working practices and be in accordance with applicable workplace requirements, industry guidelines, legislative requirements, and manufacturer's information.

Evidence must be provided of:

Making patterns and templates and marking out the required shape for three different large or complex advanced textiles projects.

When used in the fabrication strand, examples of projects that may be used include (but are not limited to) manufacture or repair of: tarpaulins, tents and marquees, screens and blinds, awnings, shade sails, canopy structures, tension membrane skins and textile structures.

When used in the trimming strand, examples of projects that may be used include (but are not limited to) manufacture or repair of: vehicle and marine upholstery, boat covers, convertible tops, tonneau covers, protective covers, clear enclosures, and carpets.

Definitions

Complex projects – projects that have a level of complexity in their production, e.g. multiple materials to be sourced, advanced technical skills required, coordination of other agencies or contractors, multiple components or parts to the product.

Industry guidelines – those practices and procedures commonly used as standard procedures to produce items of acceptable saleable quality in the industrial textile fabrication and trimming industry such as related textbook descriptors.

Large projects – projects that have additional production requirements due to their size or volume, e.g. high quantity of material, high labour needs, large production area.

Manufacturer's information – technical information for a machine or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.

Material(s) – fabric, fittings and any other components used in the manufacture of industrial textile fabrication and trimming projects.

Workplace requirements – instructions to staff on policy and procedures that are available in the workplace. These requirements may include – company policies and procedures, work instructions, product quality specifications and legislative requirements.

Ngā momo whiwhinga | Grades available

Achieved.

Ihirangi waitohu | Indicative content

- Calculations such as regular and irregular areas, volumes of regular and irregular solids.
- Components of shapes such as parallel line, radial line, triangulation, perpendiculars, arcs, angles.
- Patternmaking tools such as pencil, felt pen, scribe, compass, straight edge, dividers.
- Documentation such as job sheet, job specifications, pattern register, timesheet, production plans.

Rauemi | Resources

Legislation, regulations and/or industry standards relevant to this skill standard include but are not limited to:

- Health and Safety at Work Act 2015.

Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this skill standard will take precedence for assessment purposes, pending review of this skill standard.

Legislation can be accessed at: <https://www.legislation.govt.nz>.

Pārongo Whakaū Kouna | Quality assurance information

Ngā rōpū whakatau-paerewa Standard Setting Body	Hanga-Aro-Rau Engineering, Manufacturing and Logistics Workforce Development Council
Whakaritenga Rārangi Paetae Aromatawai DASS classification	Manufacturing > Industrial Textile Fabrication > Industrial Textile Fabrication and Trimming
Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga CMR	0014

Hātepe Process	Putanga Version	Rā whakaputa Review Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	1	29 August 2024	N/A
Kōrero whakakapinga Replacement information	This skill standard replaced unit standard 1326.		
Rā arotake Planned review date	31 December 2029		

Please contact Hanga-Aro-Rau Engineering, Manufacturing and Logistics Workforce Development Council at qualifications@hangaarorau.nz if you wish to suggest changes to this skill standard.