

40096**Measure, mark out and cut material to size for an advanced textiles project**

Kaupae Level	4
Whiwhinga Credit	8
Whāinga Purpose	<p>This skill standard is intended for people who want to learn to measure, mark out and cut items to size for a large or complex fabrication product in the advanced textiles industry.</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. Lay out, measure, and mark out material for a large or complex advanced textiles project.	a. Select and check material for flaws and take any steps necessary to manage them.
	b. Lay out material to prepare it for cutting.
	c. Measure material, ensuring adequate seam and hem allowances in accordance with project drawings.
	d. Mark material, checking measurements and marks are accurate and can be understood by others.
2. Cut material to size for a large or complex advanced textiles project.	a. Cut material, keeping within a tolerance of +/- 2mm.
	b. Check cut material for compliance with drawings and job instructions.

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 laying out, measuring, marking out and cutting material for three different large or complex advanced textiles projects.

When used in the fabrication strand, examples of products 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 products 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 products – products 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 products – products 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 products.

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

- Defects such as uneven cutting, variation in dimensions, ragged edges.
- Flaws in materials such as discolouration or dye flaws, weaving or knitting flaws, scratches or marks on surface, roll or batch differences, cuts or damage to fabric due to transport.
- Types of materials such as vinyl, PVC, canvas, foam, carpet, High Density Polyethylene (HDPE) shade fabric, polyethylene fabrics.
- Preparation for cutting – resting fabric, managing shrinkage.
- Working with patterns and stripes.
- Use of technology where available in the workplace – plotter cutter, CNC cutter.
- Multiple layers.

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	N/A		
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.