

40021**Describe materials used in the industrial textile fabrication or trimming industry**

Kaupae Level	3
Whiwhinga Credit	6
Whāinga Purpose	<p>This skill standard is intended for people who want to learn about the types of materials used in the industrial textile fabrication or trimming industry, including their construction, properties, end-uses and safe storage.</p> <p>This skill standard may be used in programmes leading to qualifications and micro-credentials at Level 3 and above in an Industrial Textile Fabrication discipline.</p>

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

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Describe the materials used to produce industrial textile fabrication or trimming products.	a. Identify the common types of materials and their end-uses.
	b. Identify the types of warranties provided by suppliers for materials.
	c. Describe the ways materials are constructed.
	d. Describe the differences between synthetic and natural materials, and their different applications.
	e. Identify the types of ropes and cords, and their end-uses.
	f. Identify the types of webbing and binding, and their end-uses.
	g. Describe common fabric flaws and faults, including imperfections, inconsistencies, handling, or transport damage.
	h. Identify methods used for the safe storage of materials.

2. Describe the permeability and flammability of materials used within the industrial textile fabrication or trimming industry.	a. Describe what material permeability means in relation to air and water.
	b. Identify tests used to assess material permeability and describe how to access test results.
	c. Describe what flammability means and explain the reasons for fire retardancy treatment of material.
	d. Identify the methods used by manufacturers to increase fire retardancy of materials.
	e. Identify flammability tests used to determine the flammability index of material.
	f. Record and interpret observations of a flammability test on selected material either in your workplace or online.

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 gathered should relate to materials used in the learner's workplace.

Definitions

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.

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

Materials

- Common types of materials, such as polyvinyl chloride (PVC), canvases, polyethylene (PE), nylon, acrylic, polyester, cotton duck, jute, leather, polyester cotton, polypropylene, polyfabrics, polytetrafluoroethylene (PTFE), shade cloth, mesh fabrics, vinyl, foam, thread.
- Construction of materials, such as woven, non-woven, knitted, mesh, ripstop weave, warp, weft, bias, selvedge, plain weave, coating, finish.

Testing and fire safety

- Tests such as waterhead, rate of air flow.
- Reasons for fire retardancy, such as safety, environment, legislative requirement.
- Methods to increase fire retardancy, such as post-production treatment.
- Flammability tests, such as ignition speed, heat evolved, char length.
- New Zealand Wool Testing Authority (NZWTA) Flammability Testing of Materials to AS1530.2 Fact Sheet [NZWTA Flammability-of-Materials-AS1530.2 Fact-Sheet 2019.pdf](#).

Rauemi | Resources

Legislation, regulations and/or industry standards

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 and Trimming > Industrial Textile Fabrication Core Skills
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	30 May 2024	N/A
Kōrero whakakapinga Replacement information	This skill standard replaced unit standards 1324 and 23495.		
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.