

## 40620 Evaluate and recommend options for processing materials or products in the resource recovery industry

<b>Kaupae   Level</b>	4
<b>Whiwhinga   Credit</b>	10
<b>Whāinga   Purpose</b>	<p>This skill standard is intended for people who are already working in a resource recovery environment including resource recovery facilities, construction, demolition or manufacturing worksites. People credited with this skill standard will be able to evaluate and recommend options for processing materials or products in a resource recovery environment, considering costs, benefits and potential issues.</p> <p>This skill standard aligns with the New Zealand Certificate in Resource Recovery (Level 4) with strands in Organic Materials Processing, Recovery and Recycling, and Metal Recycling [Ref: 2745] and may be used in programmes leading to qualifications and micro-credentials at Level 4 and above in other disciplines.</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. Evaluate and recommend options for processing materials or products in the resource recovery industry.	a. Evaluate options for material recovery of a product considering manufacture, distribution and end-use.
	b. Evaluate processing options for the recovery of non-hazardous and hazardous materials or products, considering costs, benefits and potential issues.
	c. Recommend short term options and long term solutions for recovery of non-hazardous and hazardous materials or products.

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

#### Assessment specifications:

- Assessment criteria 1 b and 1c must include a minimum of two non-hazardous materials or products and a minimum of two hazardous materials or products.
- Evidence presented for assessment against this skill standard may include oral, visual, video, written and/or practical activities demonstrated in the workplace.
- Evidence presented for assessment against this skill standard must be consistent with safe working practices and be in accordance with applicable service information, workplace procedures and legislative requirements.

## Definitions

*Materials* refer to glass, fibre (paper, cardboard), plastic, metal, rubber tyres, textiles (carpet, wool, clothing), organic materials (food waste, green waste, biosolids, industrial organic waste), e-waste and mixed construction materials (timber, plasterboard, plastic strapping & ties, polystyrene, concrete).

*Products* refer to items which are comprised of multiple parts or materials such as furniture, whiteware, electronic goods and cars.

*Workplace procedures* refer to organisation policies and procedures that are documented in memo, electronic, or manual format and available in the workplace. They may include but are not limited to – standard operating procedures, site specific procedures, site safety procedures, equipment operating procedures, quality assurance procedures, product quality specifications, manufacturer's requirements, references, approved codes of practice, housekeeping standards, environmental considerations, on-site briefings, supervisor's instructions, and procedures to comply with legislative and local body requirements relevant to the resource recovery industry.

## Ngā momo whiwhinga | Grades available

Achieved.

## Ihirangi waitohu | Indicative content

### Factors and issues

- Changes to types and complexity of waste.
- Challenges relating to resource recovery infrastructure.
- Issues that impact the effectiveness of the resource recovery sector in New Zealand.
- Volumes of waste and rates of recovery per capita.
- Methods for monitoring progress towards waste reduction.
- Regulatory gaps or challenges.
- Public engagement and behavioural challenges.
- Onshore vs. offshore processing of materials.
- Markets for outputs.
- Costs and financial viability.
- Environmental impacts.
- Availability of technology.

### Rauemi | Resources

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

- Hazardous Substances and New Organisms Act 1996.
- Health and Safety at Work Act 2015.
- Resource Management Act 1991.
- Waste Minimisation Act 2008.

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

<b>Ngā rōpū whakatau-paerewa  </b> Standard Setting Body	Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council
<b>Whakaritenga Rārangi Paetae Aromatawai  </b> DASS classification	Service Sector > Resource Recovery > Recycling and Recovery
<b>Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga  </b> CMR	0014

<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	24 April 2025	N/A
<b>Kōrero whakakapinga  </b> Replacement information	N/A		
<b>Rā arotake  </b> Planned review date	31 December 2029		

Please contact Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development at [qualifications@hangaarorau.nz](mailto:qualifications@hangaarorau.nz) to suggest changes to the content of this skill standard.