

## 40617 Sort materials and apply continuous improvement processes on a recycling sorting line

<b>Kaupae   Level</b>	3
<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 which processes different material streams on a sorting line for recycling. People credited with this skill standard will be able to apply continuous improvement and quality assurance processes to process and sort materials on a sorting line in a resource recovery environment.</p> <p>This skill standard aligns with the New Zealand Certificate in Resource Recovery (Level 3) with strands in Organic Materials Processing, Recovery and Recycling, and Metal Recycling [Ref: 2744].</p>
<b>Whakaakoranga me mātua oti   Pre-requisites</b>	Learners/ākonga must have completed a workplace health and safety induction or demonstrate equivalent knowledge and skills.

### 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. Observe material flows to identify areas for improvement on a sorting line in a resource recovery environment.	a. Identify how different materials respond on a sorting line.
	b. Identify impacts of contamination on different materials and machinery.
	c. Identify impacts of environmental factors on different materials.
	d. Use observation of material flows to identify areas for improvement on a sorting line.
2. Process and sort materials, and apply continuous improvement processes on a sorting line in a resource recovery environment.	a. Process materials on a sorting line to achieve optimal throughput and maintain quality and safety requirements.
	b. Apply continuous improvement and quality assurance processes to improve operational efficiency and minimise waste on a sorting line.

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

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.

**Definition**

*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****Impacts on materials**

- Observation of impacts on materials and their consequences.
- Contamination such as non-recyclable materials, unwashed materials, residual liquids.
- Environmental factors such as weather, humidity or dust.

**Quality and safety requirements**

- Continuous improvement and quality assurance processes used in the workplace. Examples of continuous improvement processes include Kaizen, Lean, Six Sigma, Feedback loops or Total Quality Management (TQM).
- Preventative actions to minimise or eliminate issues on sorting line.
- Application of continuous improvement processes - efficient use of power, minimisation of collateral waste, optimisation of available space to increase throughput, higher quality standards, prevention of blockages, reduction of contamination rates.
- Product specifications such as contamination limits for inputs and outputs (where relevant).

**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.

- Institute of Scrap Recycling Industries. (current version). ISRI Specifications. Guidelines for Nonferrous | Ferrous | Inbound Curbside Recyclables | Glass Cullet | Paper Stock | Plastic | Tires | Electronics. Available from: <https://www.isrispecs.org/>.
- Plastics New Zealand. The Plastic Identification Code – Label your plastics. Available from: <https://www.plastics.org.nz/>.
- Worksafe New Zealand. (current edition). Best Practice Guidelines, Safe Use of Machinery. Available from: <https://www.worksafe.govt.nz/>.

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.