

40619 Reduce waste in a resource recovery environment

Kaupae Level	3
Whiwhinga Credit	15
Whāinga Purpose	<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 apply knowledge of materials, and sort and process materials to reduce waste 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] and may be used in programmes leading to qualifications and micro-credentials at Level 3 and above in other disciplines.</p>
Whakaakoranga me mātua oti Pre-requisites	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

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Apply knowledge of materials to reduce waste in a resource recovery environment.	a. Identify volume of different waste streams entering a resource recovery environment.
	b. Identify value of reusable and recyclable materials.
	c. Identify demand for reusable and recyclable materials.
	d. Review processes to ensure that materials are retained at their highest value and implement process improvements where required.
	e. Assess costs of non-diverted waste sent to landfill.
	f. Contribute to a site waste management plan considering the waste diversion target and any contractual requirements.

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
2. Sort and process materials in a resource recovery environment.	a. Sort and process materials to maintain quality and safety requirements.
	b. Record and report any issues related to quality and/or safety requirements.
	c. Apply continuous improvement and quality assurance processes to reduce waste in a resource recovery environment.

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

Construction

- Completion of site safety passport or equivalent, and site specific induction.
- Set up of resource recovery area on a worksite.
- Communication of sorting requirements to stakeholders.
- Ensuring site waste management plan meets REBRI guidelines.
- Reviewing procurement processes to ensure responsible use of materials and reduction of waste.
- Arranging delivery of materials to reduce any excess of materials stored onsite.
- Planning for new products on site and procedures to divert from landfill.
- Assessment of costs - financial, environmental impacts of waste transportation and landfill disposal.

Continuous improvement

- 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).
- Reduction of contamination of materials streams in a resource recovery environment.
- Improving waste diversion rates.
- Reduction of costs associated with waste.
- Reduction of environmental impacts relating to waste such as greenhouse gas emissions.
- Improving communication and awareness of sorting requirements.

Rauemi | Resources

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

- Health and Safety at Work Act 2015
- Resource Management Act 1991
- Waste Minimisation Act 2008
- Ministry for the Environment. (2023). Te rautaki para | Waste Strategy. Available from: <http://www.mfe.govt.nz>
- BRANZ. REBRI Resource recovery map. Available from: <https://www.branz.co.nz/>.

Pārongo Whakaū Kounga | Quality assurance information

Ngā rōpū whakatau-paerewa Standard Setting Body	Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council
Whakaritenga Rārangi Paetae Aromatawai DASS classification	Service Sector > Resource Recovery > Recycling and Recovery
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	24 April 2025	N/A
Kōrero whakakapinga Replacement information	N/A		
Rā arotake Planned review date	31 December 2029		

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