

40616 Process materials in a resource recovery environment

Kaupae Level	2
Whiwhinga Credit	10
Whāinga Purpose	<p>This skill standard is intended for people who are new to the resource recovery industry or people who are already working in a resource recovery environment including resource recovery facilities, construction or demolition worksites. People credited with this skill standard will be able to operate machinery to process recoverable materials and meet quality and safety requirements.</p> <p>This skill standard aligns with the New Zealand Certificate in Resource Recovery (Level 2) [Ref: 2743].</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. Prepare for processing recoverable materials in a resource recovery environment.	a. Identify risks and risk control measures of machinery and tools used for processing materials in the workplace.
	b. Identify the functions and components of machinery used for processing materials in the workplace.
	c. Describe operating requirements for machinery being operated.
	d. Demonstrate machinery startup and shutdown procedures safely.
	e. Describe machinery emergency shutdown procedures.

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
2. Set up machinery for processing recoverable materials in a resource recovery environment.	a. Confirm all required components and/or equipment for processing materials are available.
	b. Set up machinery to process recoverable material.
	c. Conduct a prestart check of machinery.
	d. Report any issues affecting quality or safety requirements to supervisor.
3. Operate machinery and process recoverable materials in a resource recovery environment.	a. Operate machinery safely following workplace procedures.
	b. Process recoverable materials to meet quality and safety requirements.
	c. Undertake regular visual checks of materials to eliminate contamination or substandard materials.
	d. Adjust machine settings as required to meet quality and safety requirements.
	e. Store processed materials safely.
	f. Shut down machinery and conduct a post shut down check.
	g. Clean work area and return tools to storage.
4. Maintain machinery used in a resource recovery environment.	a. Identify risks and risk controls relating to machine maintenance.
	b. Disassemble, clean and reassemble machine as required by maintenance schedule.
	c. Report any machine faults and worn or damaged parts to supervisor.

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

- Evidence must include safe operation of a minimum of two different types of machinery, one of which is high risk.
- Machinery and tools include but are not limited to – conveyor, sort line, industrial scales, bag stitching machine, guillotine, bandsaw, plastics granulator, plastic or tyre shredder, bottle washing machine, hand tools, manual shear, saber saw, grinder, screens, picker, roll crusher, optical sorter.
- High risk machinery includes but is not limited to – bandsaw, conveyor, guillotine, plastics granulator, plastic or tyre shredder, saber saw, grinder, roll crusher.
- 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

Recoverable materials refer to materials that can be diverted from disposal for recycling, composting or re-use.

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**Workplace safety**

- Risk awareness.
- Correct use of Personal Protection Equipment.
- Safe operation of machinery.
- Housekeeping.

Machinery operation

- Confirmation of job requirements.
- Following standard operating procedures for machinery being used.
- Machinery settings for material(s) being processed.
- Workplace quality standards.

- Basic routine machine maintenance such as cleaning.
- Reporting of faults such as machine jamming, blockage, mechanical or electrical failure.

Rauemi | Resources

Legislation and best practice 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.
- New Zealand Water and Wastes Association. (2003). Guidelines for the safe application of biosolids to land. Available from: <https://www.waternz.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 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 Council at qualifications@hangaarorau.nz to suggest changes to the content of this skill standard.