

40614 Develop a plan for a modification to a resource recovery facility

Kaupae Level	4
Whiwhinga Credit	10
Whāinga Purpose	<p>This skill standard is intended for 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 develop a plan for a modification to a resource recovery facility including creating an impact assessment, evaluating options and presenting recommendations to stakeholders.</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].</p>
Whakaakoranga me mātua oti Pre-requisites	Learners/ākonga must demonstrate competence in workplace health and safety.

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

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Develop a plan for a modification to a resource recovery facility.	a. Identify the purpose and scope of proposed modification to a resource recovery facility.
	b. Gather required information for proposed modification and investigate options, considering alignment with organisational purpose.
	c. Create an impact assessment for proposed modification to resource recovery facility.
	d. Evaluate options including costs and benefits.
	e. Develop plan including recommendation(s) based on evaluation of options.
	f. Present plan to stakeholders in a resource recovery facility.

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

Assessment specifications:

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.

It is recommended people hold credits for skill standard 40611, *Monitor environmental performance at a resource recovery site* and 40603, *Research and report on technologies and best practice in the resource recovery industry* before being assessed against this skill standard.

Definitions

Environmental impacts include bioaerosols, dust, gas emissions, noise, odour, pathogens, pests, wastewater runoff and/or leachate.

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

Planning

- Gap analysis - modification could include a change to a front-end process, new equipment or machinery, extending space for storage or modifications to the existing site or process.
- Cost benefit analysis.
- Alignment of proposed modification with organisation KPIs.
- Consideration of impacts to resource consent, site safety, regulatory factors, environment and production when planning changes to resource recovery facilities or equipment.
- Information such as quotes, technical specifications, resources required and timeline.
- Liaising with internal and external stakeholders as required.
- Following workplace procedures for plans and proposals.

Presentation

- Document content, structure and layout.
- Visual presentation.
- How to pitch ideas to stakeholders.

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.
- New Zealand Standards. NZS 4454:2005 Composts, soil conditioners and mulches. Available from: <https://www.standards.govt.nz/>.
- Standards Australia. AS 4454:2012 Composts, soil conditioners and mulches. Available from: <https://store.standards.org.au/>.
- Ministry for the Environment. (2023). Te rautaki para | Waste Strategy. Available from: <http://www.mfe.govt.nz>.
- WasteMINZ. (2009). Consent Guide for Composting Operations in New Zealand. Available from: <https://www.wasteminz.org.nz/guidelines>.
- Local government bylaws.
- Local authority consent conditions.

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 > Resource Recovery Operations
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.