

## 40605 Contribute to data collection in a resource recovery environment

<b>Kaupae   Level</b>	3
<b>Whiwhinga   Credit</b>	5
<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.</p> <p>This skill standard provides an introduction to waste data collection and reporting requirements in the resource recovery industry. People credited with this skill standard will be able to contribute to data collection and analysis 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>

### 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. Explain waste data collection and reporting requirements in the resource recovery industry.	a. Explain the purpose of waste data collection and reporting in the resource recovery industry.
	b. Describe types of data relevant to the resource recovery industry.
	c. Identify data sources in the resource recovery industry.
	d. Describe methods of data collection for resource recovery.
	e. Explain the importance of accurate data collection and reporting in resource recovery processes.
	f. Describe the responsibilities of a resource recovery organisation for waste data collection and reporting including environmental and regulatory factors.

Hua o te ako   Learning outcomes	Paearu aromatawai   Assessment criteria
2. Contribute to waste data collection and analysis in a resource recovery environment.	a. Collate waste data in a resource recovery environment.
	b. Analyse waste data to identify trends 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 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.

### 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

#### Data collection and reporting

- Sampling methodologies.
- Data accuracy and quality.
- Data collection methods - manual or automated methods of tracking commodity streams by volume, material category and value.
- National waste data reporting requirements - material categories, activity categories, quantity of diverted materials and contamination levels in recycling.
- Site waste tonnages - gross tonnage, diverted tonnage and net tonnage of materials.
- Data reporting - internal use, territorial authorities (e.g. resource consent and compliance), or central government requirements.

**Data ethics**

- Principles of responsible data use and overview of privacy laws.
- Introduction to limitations and potential biases of data.
- Awareness of chain of custody for re-use, repurposing or recycling.

**Data analysis**

- Identification of data sets.
- Data visualisation.
- Review of past trends of material streams.

**Rauemi | Resources**

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

- Privacy Act 2020.
- Waste Minimisation Act 2008.
- Weights and Measures Act 1987.
- Waste Minimisation (Calculation and Payment of Waste Disposal Levy) Amendment Regulations 2023.
- Waste Minimisation (Information Requirements) Amendment Regulations 2023.
- Ministry for the Environment. (2023). Te rautaki para | Waste Strategy. Available from: <http://www.mfe.govt.nz>.
- Ministry for the Environment. Online Waste Levy System (OWLS). Available from: <https://wastelevy.govt.nz/>.
- Ministry for the Environment. Waste Data Factsheets. Available from: <http://www.mfe.govt.nz>.
- Ministry for the Environment. (2022). *Waste disposal levy information and reporting requirements for site operators*. Available from: <http://www.mfe.govt.nz>.
- Ministry for the Environment. Ngā tātuaranga para | Waste statistics dashboard. Available from: <http://www.mfe.govt.nz>.
- Data.govt.nz. *Data toolkit* (including Introduction to data and data e-learning resource). Available from <https://data.govt.nz/toolkit/>.

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 > Resource Recovery Operations
<b>Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga  </b> CMR	0014

<b>Hātepe   Process</b>	<b>Putanga   Version</b>	<b>Rā whakaputa   Review Date</b>	<b>Rā whakamutunga mō te aromatawai   Last date for assessment</b>
<b>Rēhitatanga   Registration</b>	1	24 April 2025	N/A
<b>Kōrero whakakapinga   Replacement information</b>	N/A		
<b>Rā arotake   Planned review date</b>	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.