

## 40592 Plan for compost production in a resource recovery environment

<b>Kaupae   Level</b>	4
<b>Whiwhinga   Credit</b>	10
<b>Whāinga   Purpose</b>	<p>This skill standard is intended for people who are already working in a supervisory role or want to work in a supervisory role in a resource recovery environment which processes organic materials for compost production. People credited with this skill standard will be able to develop a compost production plan and schedule, including determining production requirements and potential impacts on production, and confirm compost production processes meet compliance requirements.</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>
<b>Whakaakoranga me mātua oti   Pre-requisites</b>	Learners/ākonga must demonstrate competence in workplace health and safety.

### 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. Determine compost production requirements and potential impacts on production in a resource recovery environment.	a. Monitor raw materials, supply contracts and receival data to determine production requirements.
	b. Monitor supply of raw materials to identify potential impacts on production volume and product quality.
	c. Identify conditions that may affect production requirements and sales.
	d. Confirm production requirements in relation to site, equipment and storage capacity.

Hua o te ako   Learning outcomes	Paearu aromatawai   Assessment criteria
2. Confirm compost production processes meet compliance requirements.	a. Inspect designated unloading areas for compliance with containment and segregation of materials and rectify any non-compliance issues.
	b. Evaluate compost production site and processes to identify potential impacts on environment, health and safety, or compliance with local authority consent.
	c. Document site compliance requirements.
3. Develop production plans and production schedule in a resource recovery environment.	a. Develop a compost production plan, considering equipment capabilities and site constraints.
	b. Develop a contingency plan, which addresses potential over or under supply of raw materials and contamination issues.
	c. Develop a production schedule, in accordance with production plan and availability of resources.

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

#### Assessment specifications:

Learners can achieve this skill standard by contributing to development of a compost production plan and schedule as part of a cross disciplinary team.

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

**Raw material** may include plant materials, food waste, wood and timber, sawdust, wood shavings, crop residuals, forestry residuals, manures, biosolids, sewage grit and screenings, fats and oils, organic sludges, paper-based materials, paper mill wastes.

**Receival data** refers to data related to the receiving of raw material supplies for feedstock.

**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**

- Organic materials data such as length of time in storage, moisture levels, presence of vermin, odour levels.

**Environmental management**

- Environmental impacts such as spills, leaks, greenhouse gas emissions, odour, dust, bioaerosols, water pollution from runoff or leachate, pests, erosion, noise and fire.
- Operation in accordance with site environmental management plan

**Production**

- Inputs and outputs.
- Loading trucks.
- Additives.
- Equipment availability and suitability.
- Staff resourcing.

**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.
- 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>.
- New Zealand Water and Wastes Association. (current edition). *Guidelines for the safe application of biosolids to land*. Available from: <https://www.waternz.org.nz/>.
- UK Environment Agency. (current edition). Technical Guidance Note (Monitoring), M9. *Environmental monitoring of bioaerosols at regulated facilities*. Available from: <https://www.gov.uk/>.
- WasteMINZ. (2009). *Consent Guide for Composting Operations in New Zealand*. Available from: <https://www.wasteminz.org.nz/guidelines>.

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 > Composting
<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	27 March 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.