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| Title | Operate compost turning equipment at a composting facility | | |
| Level | 3 | Credits | 15 |

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| Purpose | People credited with this unit standard are able to: prepare for compost turning operations; prepare compost turning equipment for use; start and operate compost turning equipment; shut down compost turning equipment; and maintain compost turning equipment operational records, at a composting facility. |
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| Classification | Resource Recovery > Composting |
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| Available grade | Achieved |
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Guidance Information

- 1 All work practices must comply with the: Health and Safety (HSW) at Work Act 2015; Resource Management Act 1991; Hazardous Substances and New Organisms Act 1996; NZS 4454:2005 Composts, soil conditioners and mulches; The New Zealand Waste Strategy: Reducing Harm, Improving Efficiency 2010 Ministry for the Environment, available at <http://www.mfe.govt.nz>; and HSNO Codes of Practice for Hazardous Substances available at <https://worksafe.govt.nz/>.
- 2 Personal protective equipment (PPE) must be used throughout operations in accordance with company procedures. PPE includes but is not limited to – gloves, eye protection, appropriate footwear, overalls, hearing protection, respirator or facemask, high visibility clothing, fire extinguisher, first aid kit, eye wash kit, face shield/mask; hard hat.
- 3 Definitions
Company procedures mean the documented methods for performing work activities and include health and safety, environmental, and quality management requirements. They may refer to manuals, codes of practice, or policy statements.
Organic in this industry refers to materials that are putrescible or are of animal or vegetable origin.

Outcomes and performance criteria

Outcome 1

Prepare for compost turning operations at a composting facility.

Performance criteria

- 1.1 Compost turning requirements are identified and confirmed in accordance with company procedures.
- Range requirements may include but are not limited to – product type, product specification, compost number, work schedule, authorisation.
- 1.2 Equipment, materials, and personnel requirements for compost turning operation are identified and organised in accordance with company procedures.

Outcome 2

Prepare compost turning equipment for use at a composting facility.

Performance criteria

- 2.1 Equipment components and related attachments are fitted and adjusted to meet safety requirements in accordance with manufacturer's instructions.
- 2.2 Safety devices and alarm systems are checked for correct operation in accordance with manufacturer's instructions, company procedures, and legislation.
- Range safety devices and controls may include but are not limited to – emergency stop devices, alarms, barriers, guards, earth leakage devices, isolation, lockout and/or tagout procedures, warning lights, reverse alarms.
- 2.3 Pre-operational checks are carried out in accordance with company procedures and manufacturer's instructions.
- Range pre-operational checks may include but are not limited to – safety checks, service and maintenance of cooling system, fuel, oils and lubricants, electrolyte levels, wheels, tyre pressure, fan belts, leads, lines, connections, air filters, brakes, clutch, gearbox, steering, lighting, transmission.
- 2.4 Operational systems are checked, cleaned, and calibrated in accordance with company procedures.
- 2.5 Plant identified as faulty is isolated, safety tagged, and reported promptly to supervisor in accordance with company procedures.

2.6 Hazards in the work environment are identified, the associated risk assessed, and managed in accordance with company procedures.

Range hazards may include but are not limited to – physical, biological, mechanical;
signage, barriers (exclusion zone);
manage may include but is not limited to – avoidance, placement of signage and/or barriers.

2.7 Environmental impacts associated with equipment operation are identified, assessed, and controlled in accordance with manufacturer's instructions.

Range negative environmental impacts may include but is not limited to – noise, emissions, organic dust, hazardous substances.

Outcome 3

Start and operate compost turning equipment at a composting facility.

Performance criteria

3.1 Operational area is checked and personnel in operational area are informed of initiation of plant operation in accordance with company procedures.

3.2 Risks to self, others, and the environment are identified, assessed, and controlled in accordance with company and HSW Act requirements.

3.3 Compost turning equipment is started up using correct sequence in accordance with manufacturer's instructions and company procedures.

3.4 Compost turning equipment is operated in a safe and controlled manner, and is monitored for performance and efficiency in accordance with manufacturer's instructions and company procedures.

Outcome 4

Shut down compost turning equipment at a composting facility.

Performance criteria

4.1 Compost turning equipment shut down procedures are carried out to manufacturer's instructions and company procedures.

4.2 Compost turning equipment routine maintenance is carried out to remove debris and contamination and ensure safe and efficient operation.

4.3 Compost turning equipment is cleaned, secured, and stored in accordance with manufacturer's instructions and company procedures.

Outcome 5

Maintain compost turning equipment operational records at a composting facility.

Performance criteria

5.1 Compost turning operational records and documentation are maintained in accordance with company procedures.

Range documentation may include but is not limited to – tags, markers, information sheets.

5.2 Maintenance required to compost turning equipment and related unsafe equipment are recorded and/or reported to supervisor in accordance with company procedures.

Range unsafe equipment may include but is not limited to – damage, malfunctions, irregular performance.

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| Replacement information | This unit standard was replaced by skill standard 40587. |
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
|-----------------------|---------|---------------|--------------------------|
| Registration | 1 | 23 April 2007 | 31 December 2025 |
| Rollover and Revision | 2 | 28 March 2019 | 31 December 2025 |
| Review | 3 | 27 March 2025 | 31 December 2025 |

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| Consent and Moderation Requirements (CMR) reference | 0014 |
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.