

Title	Review, implement, and monitor quality assurance and environment management for a composting facility		
Level	5	Credits	20

Purpose	People credited with this unit standard are able to: review quality assurance procedures; develop an environmental plan for a composting facility; implement quality assurance procedures; and monitor quality assurance procedures and environmental performance, for 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 at Work Act 2015; Resource Management Act (RMA) 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 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

Review quality assurance procedures for a composting facility.

Performance criteria

- 1.1 Future market trends and/or requirements for quality assured products are assessed in terms of their impact on the future of the organisation.
- 1.2 Strategic benefits of a quality assurance program are assessed in terms of production goals and environmental impacts in accordance with NZS 4454.

1.3 Product quality standards are defined in terms of projected markets, sales and regulatory requirements under the RMA and NZS 4454.

1.4 Products and operation are audited in accordance with company procedures.

Range audit includes but is not limited to – odour and nuisance management, compliance, production related data analysis.

Outcome 2

Develop an environmental plan for a composting facility.

Performance criteria

2.1 Environmental features and impacts are identified and environmental risk assessment is conducted to determine their significance in accordance with company procedures.

Range impacts include but are not limited to – odour, gaseous emissions, dust, litter, noise, wastewater runoff and/or leachate, pests, pathogens;
features may include but are not limited to – landscape aesthetics, methane gas reduction.

2.2 Processing technology, equipment, site, and operational procedures are reviewed to identify environment management options in accordance with company procedures and NZS 4454.

2.3 Preferred environment management options are chosen and prioritised in accordance with risk assessment outcomes, and company objectives and capabilities.

2.4 Environment management plan is prepared in accordance with risk assessment and NZS 4454.

Range performance indicators, implementation schedule, responsibility, budget.

2.5 Implementation of the environment management plan is prepared in accordance with company procedures and NZS 4454.

2.6 Environmental incident reporting and public complaints reporting procedures are implemented in accordance with company procedures and NZS 4454.

Outcome 3

Implement quality assurance procedures for a composting facility.

Performance criteria

3.1 The quality assurance procedures and implementation process are clearly communicated to all staff in accordance with company procedures.

Range includes but is not limited to – change to processes and practices.

3.2 Instructions defining task and process requirements are documented in accordance with company procedures and NZS 4454.

3.3 Operating instructions are validated to verify their suitability in accordance with company procedures and NZS 4454.

3.4 The implementation of the quality assurance procedures is carried out by designated staff in accordance with approved plans and NZS 4454.

3.5 Processes to monitor and verify product quality are established in accordance with company procedures, and NZS 4454.

Outcome 4

Monitor quality assurance procedures and environmental performance for a composting facility.

Performance criteria

4.1 Implementation of quality assurance plan is reviewed in accordance with approved schedule, NZS 4454, and company procedures.

4.2 Environment management data is collected in accordance with defined environmental performance criteria, assessment methods, and NZS 4454.

4.3 Performance data, incident reports, and complaints reports are evaluated to assess performance in accordance with the quality assurance plan, and NZS 4454.

4.4 Environment management plan and production plans are reviewed and revised in accordance with company environmental objectives, and NZS 4454.

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

Consent and Moderation Requirements (CMR) reference

0014

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.