

Title	Plan and schedule compost production for a composting facility		
Level	5	Credits	20

Purpose	People credited with this unit standard are able to establish production requirements, complete a production plan, a contingency plan, and production schedule, 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 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>; Local Authority bylaws; 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.
Receival data refers to data related to the receiving of raw material supplies for feedstock.

Outcomes and performance criteria

Outcome 1

Establish production requirements for a composting facility.

Performance criteria

- 1.1 Raw material, supply contracts, and receival data are analysed to establish production requirements in accordance with company procedures.
- Range may include but are not limited to – 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.
- 1.2 Sales and market trend information, and marketing plans and strategies, are analysed to establish production requirements in accordance with company procedures and budget targets.
- 1.3 Conditions that may affect production requirements and sales are identified and analysed in accordance with company procedures.
- 1.4 Production requirements across the product portfolio are estimated in accordance with customer requirements, and site and equipment capacity.
- 1.5 Data on stockpiles of organic materials prior to composting are analysed in terms of impacts on production volume and product quality.
- Range data – length of time in storage, moisture levels, presence of vermin, odour levels.
- 1.6 Designated unloading areas are evaluated to establish levels of compliance with containment and segregation of materials
- 1.7 Designated unloading areas are analysed to establish storage capacity.
- 1.8 Environmental and health and safety aspects of the production process are analysed to establish their impacts on production and compliance with company procedures and local authority consents.
- Range environmental and health and safety aspects may include but are not limited to – spills, leaks, anthropogenic greenhouse gas emissions, odours, organic dusts, litter; water pollution from runoff or leachate, attraction of pests, erosion, noise and fire.

Outcome 2

Complete a production plan, a contingency plan, and production schedule for a composting facility.

Performance criteria

- 2.1 The production plan is completed in accordance with data collected from analysis and takes into account plant capabilities and site constraints.

- 2.2 The contingency plan addresses potential oversupply or undersupply of raw material or product and contamination issues in relation to the production plan.
- 2.3 A production schedule is completed in accordance with the production plan, availability of resources, and company procedures.

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>.