



Australian Government

AHCCOM401 Develop a composting recipe

Release: 1

AHCCOM401 Develop a composting recipe

Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to prepare and mix raw materials of known characteristics in specified proportions for composting.

It applies to individuals who analyse information and exercise judgement to complete a range of advanced skilled activities and demonstrate deep knowledge in a specific technical area. They have accountability for the work of others and analyse, design and communicate solutions to a range of complex problems.

No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication.

Pre-requisite Unit

Nil.

Unit Sector

Composting (COM)

Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Identify and characterise raw materials	1.1 Identify raw materials against established enterprise criteria 1.2 Enter raw material characteristics into compost recipe calculator to achieve a balanced recipe 1.3 Take samples of material for analysis where raw material identity or characteristics are uncertain 1.4 Determine receivable and handling requirements of raw materials
2. Establish production	2.1 Develop product specifications for identified markets using

Element	Performance criteria
objectives	product performance data and enterprise records 2.2 Identify raw material combinations that meet market requirements
3. Calculate compost recipe	3.1 Record raw material characteristics in compost recipe 3.2 Specify raw material ratios by weight in resulting compost recipe 3.3 Determine raw material pre-processing requirements, volumes of compost upon formation and compost production plan 3.4 Review composting batch management procedures and document variations to management procedures as a new procedure 3.5 Estimate and document compost production schedule 3.6 Confirm compatibility of compost recipe and production schedule against documented customer requirements 3.7 Quantify density of pre-processed raw materials and translate weight-based recipe into volume-based recipe for production 3.8 Record volumetric compost recipe and production procedures as operational batch or bucket recipe and procedures
4. Validate compost recipe	4.1 Prepare and mix raw materials to form feedstock for composting 4.2 Manage composting batch according to enterprise procedure 4.3 Monitor composting process for efficiency in relation to estimated production schedule and enterprise requirements 4.4 Monitor environmental and health and safety aspects and impacts 4.5 Identify faults, variations or problems carry out remedial action 4.6 Sample and test material to determine completion of process 4.7 Evaluate end product quality against product specifications 4.8 Revise compost recipe, production schedule and procedures

Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Unit Mapping Information

This unit is equivalent to AHCCOM401A Develop a composting recipe.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCCOM401 Develop a composting recipe

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Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence that they can:

- calculate a compost recipe that is consistent with the technology and method available from combinations of raw materials
- document compost production plan consistent with plant capabilities and site constraints
- produce a compost recipe that will achieve defined product specifications

Knowledge Evidence

The candidate must demonstrate knowledge of:

- principles and practices of compost recipes
- control of hazards in handling raw materials and composting materials
- processing duration required for various raw materials
- range of commercial compost-based products
- raw materials and their characteristics
- relationship between key compost recipe variables and compost production
- systems, technologies and methods in compost production

Assessment Conditions

Assessors must satisfy current standards for RTOs.

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