

Modification history

Release	Comments
Release 2	This version released with AHC Agriculture, Horticulture, Conservation and Land Management Training Package Version 5.0.
Release 1	Initial release

AHCPHT307	Prepare raw materials and compost feedstock
Application	<p>This unit of competency describes the skills and knowledge required to prepare and mix raw materials into a suitable feedstock mixture, monitor composting process, conduct quality control inspection and clean up.</p> <p>The unit applies to individuals who prepare raw materials and compost feedstock under broad direction and take responsibility for their own work and for the quality of the work of others.</p> <p>All work is carried out to comply with workplace procedures, health and safety in the workplace requirements, legislative and regulatory requirements.</p> <p>No licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Production horticulture (PHT)

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Organise for processing	1.1 Determine processing requirements from job sheet 1.2 Identify potential hazards and risks and implement safe working practices to manage risks 1.3 Select required materials, equipment and machinery and check for safe operation
2. Prepare raw materials and compost the feedstock mixture	2.1 Identify and collect raw materials and additives and check for physical contamination 2.2 Confirm composting technology and methods to be used according to raw material types and workplace product requirements 2.3 Pre-process raw materials into suitable forms for composting 2.4 Mix pre-processed raw materials into suitable feedstock mixtures for composting 2.5 Handle feedstock mixtures for composting according to technology, appropriate method and industry best practice 2.6 Assign batch numbers or codes and create batch documentation to enable tracking of batch
3. Monitor composting process	3.1 Monitor composting batch by observing and using field testing equipment 3.2 Maintain processing and operations records for process control and to track batch through the compost production cycle 3.3 Identify and report faults or variations to supervisor and take remedial action to maintain effective and consistent compost production

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
4. Conduct quality control inspection	4.1 Inspect and assess finished compost for compliance according to workplace product requirements 4.2 Report faults or variations 4.3 Adjust and reprocess non-compliant product 4.4 Confirm compliance of compost batch according to workplace product requirements 4.5 Complete batch documentation for compliant compost product 4.6 Inform sales and operational staff members that product is suitable for sale or preparation of value added products
5. Clean up area	5.1 Clean and secure loading-shifting machinery and other processing equipment according to workplace procedures 5.2 Clear away raw materials and finished compost products to designated areas and clean processing site

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Foundation Skills	
<i>This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.</i>	
Skill	Description
Reading	<ul style="list-style-type: none"> Interpret textual information from a range of sources to identify relevant and key information about workplace processing requirements
Writing	<ul style="list-style-type: none"> Establish, maintain and complete batch documentation Maintain processing and operations records
Oral communication	<ul style="list-style-type: none"> Use clear language to report compost production faults or variations to supervisor Use clear language to confirm product is suitable for sale or preparation of value added products
Numeracy skills	<ul style="list-style-type: none"> Calculate quantities and ratios of raw materials and feedstock mixtures Assign batch numbers or codes

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
AHCPHT307 Prepare raw materials and compost feedstock Release 2	AHCPHT307 Prepare raw materials and compost the feedstock Release 1	Performance criteria clarified Foundation skills added Assessment requirements updated	Equivalent unit

Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72
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TITLE	Assessment requirements for AHCPHT307 Prepare raw materials and compost feedstock
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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that the individual has prepared raw materials and compost feedstock on at least three occasions and has:

- applied workplace health and safety requirements
- prepared raw materials for composting according to workplace product requirements
- established, maintained and completed compost batch documentation
- prepared batches for composting according to defined compost recipes
- conducted and interpreted basic field test results to confirm effective processing and defined intervention required to rectify composting processes
- maintained processing operations records.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- workplace requirements applicable to health and safety in the workplace for preparing raw materials and compost feedstock
- principles and practices for preparing composting raw materials, including:
 - Australian composting standards
 - batch documentation techniques
 - characteristics of a range of raw materials
 - compost production cycle
 - compost quality standards
 - fundamental characteristics of compost quality
 - key process control stages critical to consistent compost production
 - overview of systems and technologies used in compost production
 - principles of commercial compost production
 - range and characteristics of categories of compost product
 - steps in pre-processing compost materials.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - commercial composting materials, equipment and machinery, and load-shift machinery
 - raw compost materials and feedstock mixtures
 - field testing equipment
- specifications:
 - workplace requirements applicable to health and safety in the workplace for preparing raw materials and compost feedstock
- relationships:
 - supervisor, sales and operational staff members
- timeframes:
 - according to job sheet requirements.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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