



Australian Government

AHCPHT220 Perform mushroom substrate process tasks

Release: 1

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Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 6.0.

Application

This unit of competency describes the skills and knowledge required to perform mushroom substrate process tasks, including preparing and assisting with each process stage and finalising substrate processes.

The unit applies to individuals who perform mushroom substrate process tasks under general supervision with limited autonomy or accountability.

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

Pre-requisite Unit

Nil

Unit Sector

Production Horticulture (PHT)

Elements and Performance Criteria

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. Prepare for each process stage	1.1 Identify substrate process requirements with supervisor 1.2 Select and prepare tools, equipment and machinery 1.3 Report and fix faults or variations from required settings 1.4 Identify site quarantine protocols, workplace and personal hygiene requirements and food safety requirements when preparing for substrate process stages 1.5 Identify workplace health and safety hazards, and report to

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<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	supervisor 1.6 Identify environmental and biosecurity implications associated with work, and minimise impact
2. Fill units with mushroom substrate	2.1 Operate filling equipment at a speed that maintains continuous operation 2.2 Fill units with mushroom substrate according to workplace procedures
3. Assist with spawning processes	3.1 Inspect and report any abnormalities found in spawn 3.2 Mix spawn into mushroom substrate 3.3 Check spawn usage rate and report variations according to workplace procedures 3.4 Apply and mix supplement as required 3.5 Install spawned mushroom substrate in spawn run rooms 3.6 Take samples of mushroom substrate according to workplace procedures 3.7 Check mushroom substrate for presence of pests, and take remedial action as required
4. Prepare and apply casing mixture	4.1 Assemble and check required quantities of pesticides, peat, limestone and additives for casing 4.2 Blend casing ingredients according to workplace procedures 4.3 Take samples of prepared casing and mushroom substrate before casing has been added 4.4 Apply and mix supplement as required 4.5 Check casing depth, structure and consistency, and report variations according to workplace procedures
5. Finalise mushroom substrate processes	5.1 Clean and return tools, equipment and machinery to required location 5.2 Identify and report unserviceable tools, equipment and machinery according to workplace procedures 5.3 Clean up at the end of each process stage 5.4 Complete records legibly and accurately 5.5 Report work outcomes and seek feedback on performance

Foundation Skills

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.

Skill	Description
Reading	Interpret textual information from a range of sources to identify relevant and key information about processing mushroom substrate
Writing	Use clear language and accurate industry terminology to complete work records
Oral communication	- Use clear language to report spawn usage rate variations, and casing depth, structure and consistency variations - Use clear language to report work outcomes and unserviceable tools and equipment to supervisor and seek feedback
Numeracy	- Calculate pesticide, peat, limestone and additive quantities for casing - Measure casing depth

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCPT220 Perform mushroom substrate process tasks	AHCPT207 Perform mushroom substrate process tasks	Minor changes to application Major changes to performance criteria Foundation skills added Assessment requirements updated	Not equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCPTH220 Perform mushroom substrate process tasks

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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 performed mushroom substrate process tasks on at least three occasions, and has:

- selected, prepared and maintained mushroom substrate processing tools, equipment and machinery
- maintained site quarantine protocols and personal hygiene
- applied workplace health and safety requirements
- minimised environmental impacts associated with mushroom substrate process tasks
- followed industry and workplace biosecurity procedures
- filled units with mushroom substrate
- applied spawn into mushroom substrate
- reported spawn usage rate variations, and casing depth, structure and consistency variations
- calculated pesticide, peat, limestone and additive quantities
- prepared and applied casing mixture
- measured casing depth
- completed work records and reported work outcomes and unserviceable tools and equipment to supervisor and sought feedback.

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:

- principles and practices of mushroom substrates, including:
 - food safety standards, hazards and critical control points, quality systems and emergency procedures
 - the impact on the rest of the mushroom production cycle of deviations of mushroom substrate quality from workplace standards for substrate

- the mushroom production cycle
- substrate production
- site quarantine protocols
- workplace requirements applicable to health and safety in the workplace for mushroom substrate process tasks
- environmental impacts associated with mushroom substrate process tasks
- industry and workplace biosecurity procedures.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - mushroom substrate processing tools, equipment and machinery
 - mushroom substrate and spawn
 - pesticide, peat, limestone, additive and casing mixture
- specifications:
 - food safety standards relevant to mushroom substrate preparation
 - workplace requirements applicable to health and safety in the workplace for mushroom substrate process tasks
 - industry and workplace biosecurity procedures applicable to mushroom substrate process tasks
- relationships:
 - supervisor
- timeframes:
 - according to job 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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