



Australian Government

AHCPHT415 Control Phase II mushroom substrate process

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 control Phase II of a mushroom substrate process, including confirming requirements for mushroom substrate preparation and carrying out Phase II processes.

The unit applies to individuals who apply specialist skills and knowledge to control Phase II of a mushroom substrate process. This includes applying and communicating non-routine technical solutions to predictable and unpredictable problems.

All work is carried out to comply with workplace procedures, health and safety in the workplace requirements, legislative and regulatory requirements, and sustainability and biosecurity practices.

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. Confirm the requirements for Phase II mushroom substrate preparation	1.1 Monitor and manage Phase II mushroom substrate process and ensure all equipment is operated safely 1.2 Check and ensure all temperature probes are functioning correctly 1.3 Confirm site quarantine protocols and workplace and personal

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	hygiene requirements are followed 1.4 Assess condition and quality of compost before filling
2. Carry out Phase II process	2.1 Monitor placement of probes in air and substrate 2.2 Check amount and evenness of filling 2.3 Check doors are secure and vents and thermostats are set at completion of filling 2.4 Measure and record key factors and critical points 2.5 Adjust equipment settings to ensure optimum conditions for each Phase II sub-stage 2.6 Take random representative samples for laboratory testing 2.7 Determine ammonia levels before cool down for spawning

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	Identify and interpret information regarding requirements for controlling Phase II of a mushroom substrate process

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCPHT415 Control Phase II mushroom substrate process	AHCPHT406 Control Phase II mushroom substrate process	Performance criteria clarified Foundation skills added Assessment requirements updated	Equivalent

Links

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

Assessment Requirements for AHCPT415 Control Phase II mushroom substrate process

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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 controlled Phase II mushroom substrate processes on at least two occasions, and has:

- applied relevant workplace health and safety procedures
- differentiated between Phase I substrate and substrate ready for spawning, and described desired parameters of each stage
- monitored and managed Phase II process for at least eight crops
- assessed room or tunnel layout and determined most appropriate locations for taking substrate and air measurements
- carried out effective troubleshooting during Phase II process.

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 for controlling Phase II mushroom substrate processes, including:
 - concept of compost selectivity and biological indicators of compost quality
 - correct probe placement and calibration
 - factors influencing air quantity and distribution
 - Hazard Analysis and Critical Control Points, quality systems, emergency procedures, organisational structure
 - interpretation of chemical test results
 - how different systems, including; shelf, tray and tunnel, impact on temperature zones in substrate
 - key parameters to be recorded and monitored relating to temperature, ammonia and moisture content
 - objectives and desired parameters of each sub-stage of Phase II substrate preparation

- overview of Phase I compost production and how it impacts on Phase II process
- food safety standards, legislation and industry codes of practice relevant to controlling Phase II processes
- site quarantine protocols
- workplace requirements applicable to health and safety in the workplace for controlling Phase II mushroom substrate processes.
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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
- specifications:
 - food safety standards, legislation and industry codes of practice relevant to controlling Phase II processes
 - site quarantine protocols
 - workplace requirements applicable to health and safety in the workplace for controlling Phase II mushroom substrate processes
- 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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