



Australian Government

AHCPHT412 Manage mushroom substrate preparation

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 manage mushroom substrate preparation, including confirming status of system requirements, confirming quality and consistency of Phase II outputs, monitoring and manipulating spawning and spawn run, and managing clean-up procedures.

The unit applies to individuals who apply specialist skills and knowledge to manage mushroom substrate preparation. 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 status of system requirements for mushroom substrate	1.1 Determine details of quantities of substrate required, and dates and times to be achieved for each process stage, and inform personnel 1.2 Determine availability, quality, serviceability and cleanliness of all

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
preparation	rooms, work areas, machinery, equipment and materials for mushroom substrate preparation 1.3 Allocate staff duties and responsibilities according to mushroom substrate preparation plan 1.4 Identify and implement site quarantine protocols and workplace and personal hygiene requirements for mushroom substrate preparation 1.5 Identify hazards and assess risks in the workplace, and implement control measures to manage risks according to workplace health and safety procedures
2. Confirm quality and consistency of Phase II outputs	2.1 Confirm Phase II process conforms to required production schedule and workplace procedures 2.2 Measure and record key factors and critical points 2.3 Take random samples of end product and dispatch for analysis 2.4 Record test results, compare to standards and take remedial action
3. Monitor and manipulate spawning and spawn run	3.1 Assess condition and quality of compost before spawning, and take remedial action 3.2 Take temperature readings, and record and adjust if required 3.3 Measure, record and control carbon dioxide content 3.4 Monitor spawn growth and appearance of mycelium during spawn run period 3.5 Select product and its rate of application where supplement is to be added to substrate at spawning 3.6 Monitor room hygiene and occurrence of pests and diseases, and implement control measures
4. Manage clean-up procedure	4.1 Manage clean-up activities at the end of each process stage 4.2 Conduct cook-out or chemical disinfestations treatment before removal of spent substrate 4.3 Return tools and equipment to storage area after cleaning, performing basic preventative maintenance and checking for future serviceability 4.4 Report faults to maintenance personnel 4.5 Complete workplace records according to workplace requirements

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 managing mushroom substrate preparation
Oral Communication	- Initiate discussions with staff, using clear language and standard industry terminology to communicate substrate preparation activities and allocate duties and responsibilities - Use clear language to report faults or variations from required settings to maintenance personnel

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCPHT412 Manage mushroom substrate preparation	AHCPHT405 Manage mushroom substrate preparation	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>