



Australian Government

AHCPHT315 Establish horticultural crops

Release: 1

AHCPTH315 Establish horticultural crops

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 establish horticultural crops by seed, seedlings or other vegetative means.

The unit applies to individuals who establish horticultural crops under broad direction and take responsibility for their own work.

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 machinery and equipment for use	1.1 Determine work requirements from work plan 1.2 Identify potential hazards and risks and implement safe working practices to manage risks 1.3 Select required tools, equipment and machinery, and check for safe operation 1.4 Attach and calibrate equipment, and check for correct operation
2. Prepare for horticultural crop	2.1 Monitor soil and weather conditions for optimal planting

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
establishment	conditions 2.2 Recognise and confirm soil conservation and sustainable land management practices and procedures 2.3 Confirm and prepare seeding or planting, and fertiliser, and pest and weed control requirements
3. Sow or plant the crop	3.1 Undertake sowing or planting and fertiliser applications safely and according to work plan 3.2 Coordinate pest and weed control treatment with sowing or planting and fertiliser applications 3.3 Identify environmental and biosecurity implications associated with establishing crop, and minimise impact
4. Complete sowing or planting operations	4.1 Conduct machinery and equipment shut-down according to workplace procedures 4.2 Perform routine machinery and equipment operational servicing and minor maintenance 4.3 Identify and report tool, machinery and equipment malfunctions, faults, irregular performance or damage according to workplace procedures 4.4 Clean, store and secure tools, machinery and equipment 4.5 Record and report crop establishment activities and machinery use records

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 establishing horticultural crops
Writing	Use clear language and accurate industry terminology to record crop establishment activity
Oral communication	Use clear language to report malfunctions, faults, irregular

Skill	Description
	performance or damage
Numeracy skills	Calculate quantities of seeds or seedlings and machinery fluids

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCPHT315 Establish horticultural crops	AHCPHT306 Establish horticultural crops	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 AHCPTH315 Establish horticultural crops

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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 established horticultural crops on at least two occasions, and has:

- applied workplace health and safety requirements
- carried out tool, machinery and equipment pre-operational checks according to operation and maintenance manual
- attached and calibrated equipment safely
- carried out ground preparation and applied pre-planting treatments
- operated tools, machinery and equipment according to operation and maintenance manual, manufacturer specifications, task requirements and local conditions
- carried out sowing or planting operations, and fertiliser application
- minimised environmental and biosecurity impacts associated with establishing horticultural crops
- shut down machinery and equipment
- performed minor maintenance
- recognised and documented defects in machinery and equipment
- cleaned, stored and secured tools, machinery and equipment
- recorded and reported establishment activities and machinery use.

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 establishing horticultural crops
- manufacturer and workplace requirements for seeding and planting machinery and equipment, including:
 - pre-operational checks

- machinery operation techniques
- principles of weight distribution with regard to load shifting and vehicle movement
- operator level servicing
- planned and emergency shut-down procedures
- principles and practices for establishing crops, including:
 - crop types, preparation of seeds and plants, seeding and planting methods and application techniques
 - effects of weather conditions on seeding and planting and fertilising applications
 - workplace procedures for seeding and planting operations, recording and reporting
 - fertiliser types, rates of application and crop nutrient requirements
 - sustainable land management and soil conservation techniques
- environmental and biosecurity impacts associated with establishing horticultural crops, including:
 - positive environmental practices, negative environmental impacts, and minimisation measures associated with seeding operations
 - chemical handling techniques for fertiliser
 - fertiliser safety data sheets information
 - environmental impacts of fertiliser
 - use and control of hazardous substances.

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
 - individual must not be under the influence of alcohol or drugs
 - individual must not be taking any medication (prescribed or otherwise) that may impair judgement
 - individual must not be in a fatigued state when operating seeding and planting machinery
- resources, equipment and materials:
 - seeding and planting machinery
 - horticultural seeds and seedlings
 - personal protective equipment applicable to establishing horticultural crops
- specifications:
 - horticultural seeding and planting machinery and equipment operation and maintenance manuals
 - workplace requirements applicable to health and safety in the workplace for establishing horticultural crops

- work instructions and workplace procedures applicable to establishing horticultural crops
- recording procedures
- industry and workplace environmental and biosecurity procedures applicable to establishing horticultural crops
- 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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