



Australian Government

AHCPER216 Harvest, treat and store seed

Release: 1

AHCPER216 Harvest, treat and store seed

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 9.0.

Application

This unit of competency describes the skills and knowledge required to identify specified seed and its maturity, use harvesting techniques, apply treatments according to seed harvest plan and store seed to preserve viability.

This unit applies to individuals who work under supervision and exercise limited autonomy with some accountability for their own work. They undertake defined activities and work in a structured context.

Legislation, regulations and by-laws relating to the collection and removal of plant materials from public and private land apply nationally and in some states, territories and jurisdictions. Users are advised to check with the local relevant authority.

Pre-requisite Unit

Nil

Unit Sector

Permaculture (PER)

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 harvesting of seed	1.1 Confirm work requirements with supervisor 1.2 Select and prepare seed harvesting and handling equipment 1.3 Identify seed to be collected from harvesting plan 1.4 Identify and prepare location to treat and store harvested seed 1.5 Access and carry permits and approvals for seed collection site

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	according to workplace procedures and regulatory requirements
2. Harvest seed	2.1 Transport seed harvesting equipment to seed collection site 2.2 Identify site safety hazards and implement controls according to workplace health and safety procedures 2.3 Collect seed according to harvesting plan, permits and approvals 2.4 Preserve condition of parent plant according to plant species and harvesting conditions 2.5 Place harvested seed in temporary field storage and label according to workplace procedures
3. Treat and store seed	3.1 Separate viable seed from chaff and waste material 3.2 Treat seeds according to harvesting plan 3.3 Record information on seed container label according to workplace procedures 3.4 Pack and store seeds to maintain viability

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
Writing	Use clear language and correct concepts and terminology to ensure clarity of meaning when recording and labelling collected seed

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCPER216 Harvest, treat and store seed	AHCPER202 Harvest, treat and store seed	Minor change to Application for clarity Changes to Performance	Not equivalent

		Criteria included safety, permits and approvals Changes to Performance Evidence, Knowledge Evidence and Assessment Conditions for clarity Addition of Foundation Skills	
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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 AHCPER216 Harvest, treat and store seed

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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 harvested, treated and stored seeds and has:

- confirmed seed harvesting plan and work requirements with supervisor
- prepared equipment for harvesting, cleaning and storing of seed
- harvested seeds safely according to harvesting plan, which must include any two (2) of the following seed types:
 - seeds of soft fruits
 - monocotyledon (grasses and grains)
 - leguminous seeds
 - woody plants with dry dehiscent seed
 - herbaceous plants
- separated seed from chaff or other waste material, which must include three (3) different seed extraction methods
- treated and stored viable seed
- maintained accurate 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:

- seed harvesting techniques, including:
 - materials, equipment and resources
 - health and safety
 - field storage containers for harvested seed
 - protection of plants being harvested
- characteristics of mature viable seed
- diseases and pests likely to affect seed on the plant or in storage

- seed extraction methods, including:
 - hand selection
 - winnowing
 - sieving
 - vibration
 - flotation and fermentation
 - drying
 - heat-assisted dehiscing
 - crumbling of husks
- practices relating to seed harvesting and storage, including:
 - containers, including re-used jars, boxes and packets
 - cool, dry location
 - freezer or refrigerator
 - pest deterrent mechanisms
 - light exclusion
 - protection treatments against pathogens
- records and information required in the field and storage of seed:
 - genus, species, family, variety and cultivar information
 - provenance – where the seed came from
 - weight or number
 - date collected
 - place collected
 - collector
 - cultural advice or growing conditions
 - seed pre-treatment advice
 - longevity information
- storage location information or record locator.

Assessment Conditions

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

- physical conditions:
 - skills must be demonstrated in the field or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - plants with seed to harvest
 - seed collection tools and equipment
 - personal protective equipment
- specifications:

- workplace safety procedures
- manufacturer operating instructions for harvesting equipment
- access to safety data sheets for treatments
- supervisor instructions and harvesting plan
- access to permits for seed collection
- relationships:
 - supervisor.

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

Links

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