



Australian Government

Assessment Requirements for AHCPER416 Manage a seed bank

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 9.0.

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, on at least one occasion, managed a seed bank and has:

- planned seed collection program, which must include:
 - plant botanical and vernacular name
 - seed characteristics
 - mapping the location of site and plants on site
 - planning collection strategy according to geography, size and type of plants
 - obtaining approvals according to site tenure
- overseen seed collection activities for program
- developed and monitored safety procedures for seed collection team
- maintained a seed collection to ensure maximum viability
- maintained records, labels and permits for seed collection program.
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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:

- flowering biology of the target species
- biological signs that indicate seed crop maturity
- types of seed banks and their purpose, including:
 - community seed banks and networks
 - private and commercial seed collections
 - commercial seed distribution
 - organic food production enterprises
 - heritage and non-hybrid seed collections

- methods of seed collection, including:
 - hand-picking seeds and fruits
 - harvesting plants or plant parts
 - collecting and ripening fruit
 - shaking
- extraction of seed from chaff and waste
- handling of the seed crop after picking
- storage of seed, including:
 - storage containers, including bags, paper envelopes, plastic or glass containers, foil
 - environmental conditions for storage, including cool, dry, dehumidifying agents (silica gel, wood ash), oxygen exclusion techniques and freezer/refrigerator
 - pest deterrent mechanisms
 - light exclusion mechanisms
- documentation of the extracted seed, including:
 - information on provenance
 - botanical name: family, genus, species, variety and/or cultivar
 - common names
 - brief plant description
 - identity of collector
 - date collected or use-by date
 - quantity (by weight or number of seeds)
 - viability test results
 - organic certification of grower
 - growing instructions such as recommended season and spacing
- provenance of seed, including:
 - location and growing conditions of parent plant
 - sub-catchment identification of seed from endemic native plant populations
 - species and/or varieties adapted to local conditions
- collecting ethics, protocols and legislative parameters, including:
 - limits on quantity allowed for collection
 - limits on time period for collection
 - particular use or destination for seed
 - indigenous plant regulatory conditions
 - permits and authorities for site tenure
- safe work practices when harvesting seed, including working at heights.
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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 for specific seed collection site or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - tools and equipment for seed collection
 - health and safety equipment
- specifications:
 - workplace policies, procedures, processes
 - manufacturer operating instructions for equipment
 - specific legislation and codes of practice
- relationships:
 - stakeholders
- timeframes:
 - according to seasonal variations
 - according to seed viability period.

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

Links

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