



Australian Government

AHCPCM510 Collect and classify plants

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 collect and classify plants, including preparing for plant collection, collecting plant specimens, preserving specimens and identifying plant specimens using taxonomic keys.

The unit applies to individuals who apply specialised skills and knowledge to the collection and classification of plants, and take personal responsibility and exercise autonomy in undertaking complex work. They analyse and synthesise information, and analyse, design and communicate solutions to sometimes complex problems.

All work must be 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

Plant Culture and Management (PCM)

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 plant collecting	1.1 Confirm purpose and objectives for collecting a range of plants 1.2 Define area, location and habitat for collecting 1.3 Determine and prepare resources to assist in locating and

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	identifying plants 1.4 Determine and prepare equipment required for collecting and preserving specimens 1.5 Obtain licences or permission to collect specimens from landowner or managing agency 1.6 Assess range of likely operating conditions, hazards and difficult or sensitive environments for impact on collecting and preserving specimens 1.7 Identify workplace health and safety hazards associated with plant collecting, assess risks and implement controls
2. Collect plant specimens	2.1 Observe collection ethics when selecting specimens for picking 2.2 Enter into a field note book relevant information about the specimen, its characteristics and occurrence, and note location coordinates 2.3 Confirm specimen collected provides adequate material for identification and preserving 2.4 Tag and store specimens for later identification 2.5 Follow appropriate work health and safety requirements and work practices
3. Preserve specimens	3.1 Preserve specimen while still fresh 3.2 Clean and prepare specimen for preserving 3.3 Preserve specimen using either pressing or drying techniques 3.4 Mount dried specimen and label with information from note book
4. Identify plant specimen	4.1 Use relevant plant key to identify plant 4.2 Identify and document basic characteristics of a plant 4.3 Confirm plant identity against botanical description of species 4.4 Document plant identity on label according to workplace procedures

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 the collection of plants and the botanical description and plant key of plant specimens
Numeracy	Record specimen collection date and location coordinates into field note book

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCPM510 Collect and classify plants	AHCPM502 Collect and classify plants	Performance criteria clarified Foundation skills added Assessment requirements updated	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 AHCPM510 Collect and classify plants

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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 collected and classified a variety of plants on at least three occasions, and has:

- prepared for plant collection
- noted the location, characteristics and occurrence of specimens at the point of collection
- cleaned, preserved, mounted and labelled specimens
- used a plant key to identify plants against the botanical description of the species.

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 of plant classification,
 - herbarium collection techniques and ethics
 - physical and biological habitat types, including vegetation associations and communities, where appropriate
 - plant anatomy, physiology, morphology, taxonomy and nomenclature
- specimen license or permission granting processes
- environmental conditions and hazards that impact upon plant specimen collection and preservation.

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

- resources, equipment and materials:
 - plants
 - plant specimen collection and preservation equipment and materials
 - field note book
- specifications:
 - plant key
 - herbarium collection techniques and ethics
- 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.

Links

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