



Australian Government

AHCPCM308 Identify and select plants

Release: 1

AHCPM308 Identify and select plants

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 and select plants to suit plant use and work site, including identifying commonly used plants, describing plants and explaining plant cultural requirements.

The unit applies to individuals who identify and select plants 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

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. Identify commonly used plants	1.1 Observe morphological, tactile and sensory characteristics of plant specimens 1.2 Identify a variety of commonly used plant types in terms of function in the landscape 1.3 Identify commonly used plants to a common name, genus, species and cultivar level
2. Identify plants based	2.1 Identify basic types, functions and structure of roots, stems, trunks

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
on growth and development	and vascular systems 2.2 Identify basic types, functions and structure of leaves, buds and meristems 2.3 Identify basic types, functions and structure of flowers, fruit and seeds
3. Determine plant cultural requirements	3.1 Refer to origins and cultural requirements of different plant types 3.2 Explain growing conditions and their impact on plants and their performance
4. Identify and select plants to suit the plant use and work site	4.1 Identify function of plant use within the landscape 4.2 Identify site conditions related to plant use 4.3 Identify and select plants based on their cultural requirements and growth habit

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 plant identification reference material
Oral communication	Participate in verbal exchanges, using clear language and standard industry terminology to describe plant growth and development requirements, and explain plant cultural requirements and growing conditions

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCP308 Identify and select	Not applicable	The unit has been created to address a skill or task	Newly created

plants		required by industry that is not covered by an existing unit	
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Links

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72> -
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Assessment Requirements for AHCPM308 Identify and select 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:

- identified a minimum of 50 plants to common name and scientific name without using reference material
- identified an additional 30 plants to scientific name using reference material, including online resources
- selected a group of plants based on their function for use in three different scenarios.

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:

- basic principles of plant growth and development, including:
 - photosynthesis, light levels, quality and quantity
 - respiration, oxygen movement
 - transpiration, water movement within a plant
 - leaf structure and function, including chlorophyll and stomata
 - stem structure and function, including trunk, vascular structure, xylem, phloem, cambium and meristems
 - root structure, types and function
 - flower, fruit and seed structure
 - plant growth and life cycles, perennial, annual, evergreen, deciduous, dormancy
 - plant cultural requirements, soil, light levels, water, disease and pest protection, temperatures and drainage
 - plant identification techniques, plant selection, and habit and growth characteristics of the plants
 - soil characteristics and texture, in relation to the local region

- taxonomy at the family, genus, species and cultivar level
- grouping of plant types, including:
 - trees
 - shrubs
 - perennials and annuals
 - herbs
 - grasses.

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, cuttings and live specimens
 - reference material applicable to identifying and selecting plants
 - computer hardware and software.

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>