Modification history

Release	Comments
Release 2	This version released with AHC Agriculture, Horticulture, Conservation and Land Management Training Package Version 4.0.
Release 1	This version released with AHC Agriculture, Horticulture, Conservation and Land Management Training Package Version 1.0.

AHCARB313	Identify trees
Application	This unit of competency describes the skills and knowledge required to identify trees and their environmental and social benefits to clients and community. The unit applies to individuals who work under broad direction and take responsibility for their own work. They use discretion and judgement in the selection, allocation and use of available resources and for solving problems. No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication.
Prerequisite Unit	Nil
Unit Sector	Arboriculture (ARB)

Elements	Performance Criteria
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Inspect tree features	1.1 Observe morphological characteristics of the tree specimens 1.2 Observe tactile and sensory characteristics of tree specimens 1.3 Record observations and characteristics according to workplace procedures 1.4 Compare tree specimen characteristics with taxonomic classification to determine Division
2. Inspect tree condition	2.1 Observe the trees general health and condition 2.2 Inspect tree specimens for pests, diseases and deficiencies that affect tree characteristics 2.3 Recognise and record pests, diseases and deficiencies indicative of classification
3. Identify tree	3.1 Use reference material to compare plant specimen characteristics to taxonomic levels (categories) 3.2 Obtain and compare known images or samples to plant specimens 3.3 Analyse plant specimens for specific characteristics and identify to lowest level (category) of classification
4. Assess environmental and social benefits of tree	4.1 Examine tree for ecological habitat of localised biota 4.2 Identify localised ecological and environmental benefits provided by tree 4.3 Evaluate environmental and social benefits of tree 4.4 Assess the environmental and social value of tree to key stakeholders
5. Report on results	5.1 Record identification achieved 5.2 Highlight key identifying features observed in the process 5.3 Inform client of the results of the identification process

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
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Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCARB313 Identify trees	AHCARB313 Identify trees	Changes to Elements and PC's for clarity	Equivalent unit

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

TITLE	**Assessment requirements for AHCARB313 Identify trees**

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 demonstrated that they can identify at least 80 trees local to the individuals work environment and has:
- identified and recorded key characteristics of tree morphology and identified trees to division level
- determined plant health and assessed effect on characteristics indicative to identification
- used reference materials to compare characteristics with taxonomic classification
- identified at least 15 tree specimens to lowest level of classification (category) using a taxonomic key
- compiled identification data and recorded the identification process according to workplace procedures
- examined trees for habitat for local biota
- identified, evaluated and documented benefits the tree has to the local community
- recorded and reported outcomes of identification to stakeholders according to workplace procedures.

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:
- methods of identifying trees
- botanical features of trees including their morphological and sensory characteristics including:
    - form, structures and local environment of tree
    - leaf shape, colour and size
    - tree shape and structure branchlets, branches and bark
    - flowers and bud characteristics and inflorescence
    - fruit type and characteristics
    - smell, taste and touch
- general health and condition of trees and their indicative features for identification including signs and symptoms of diseases, pests or deficiencies of trees
- collecting and recording of information and data relevant to tree identification
- collecting and using botanical samples for tree identification including:
    - photographs and images
    - fresh or dried botanical specimens
- plant taxonomic classification to the level of genus and species
- research and reference materials used in the identification of tree species including:
    - field guides
    - basic taxonomic keys
    - journals and botanical references
- benefits and value of trees including:
    - cultural/social
    - economic
    - conservation/environmental
    - aesthetic
- rating systems for tree evaluation
- documenting and reporting procedures for identification and value of trees to key stakeholders, clients and community
- communications strategies for informing client and organisations of tree identification and value
- trees as a biological habitat for plants animals, insects and vegetation including:
    - food source and supply
    - micro climate
    - hollows and nesting sites
    - modifier of the soil environmental.

Assessment Conditions

Assessment of skills must take place under the following conditions:

Assessment Conditions

- physical conditions:
    - skills must be demonstrated in a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
    - live tree specimens
    - use of specific tools and equipment necessary for tree observations
    - access to botanical reference materials, tree data bases, taxonomic keys
    - camera or image capture devices
- specifications:
    - use of specific workplace documents such as procedures and processes for recording data and preparing reports
    - use of workplace instructions, specifications or client briefs
- relationships:
    - clients/stakeholders

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

In addition, the following specific assessor requirements apply to this unit:
- arboriculture vocational competencies at least to the level being assessed
- current arboriculture industry skills directly relevant to the unit of competency being assessed

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