



Australian Government

AHCARB509 Develop an arboricultural impact assessment report

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 5.0.

Application

This unit of competency describes the skills and knowledge required to decide on the appropriateness for retaining trees and to assess, plan and monitor the protection of trees on construction and development sites where trees subject to retention are exposed to potential damage.

The unit applies to individuals who work in arboriculture and analyse information and exercise judgement to complete a range of advanced skilled activities and demonstrate deep knowledge in a specific technical area. They have accountability for the work of others and analyse, design and communicate solutions to a range of complex problems.

Legislation, regulations and by-laws relating to the treatment and removal of trees apply in some states and territories.

Pre-requisite Unit

Nil

Unit Sector

Arboriculture (ARB)

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. Undertake assessment of trees affecting site	1.1 Identify and research impact of legislation and Australian Standards of trees on site 1.2 Determine requirements of statutory authorities for trees on development site 1.3 Determine local government planning laws, tree protection and

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<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	<p>preservation regulations for site</p> <p>1.4 Assess or survey trees on adjacent site and determine legal status and suitability for retention</p> <p>1.5 Conduct a site assessment and identify conditions that impact tree protection program</p> <p>1.6 Identify hazards, activities and circumstances that have potential to harm trees and assess the level of risk</p> <p>1.7 Locate and confirm trees plotted on survey plan</p> <p>1.8 Plot trees not represented onto survey plan</p>
2. Compile preliminary tree assessment data	<p>2.1 Collect available relevant plans and documentation</p> <p>2.2 Identify and record affected trees with botanical and common name on development and adjoining site</p> <p>2.3 Record tree dimensions according to statutory requirements</p> <p>2.4 Determine age class and estimate life expectancy</p> <p>2.5 Determine tree health in relation to tree physiology and pathology</p> <p>2.6 Determine condition of tree structure in relation to tree anatomy</p> <p>2.7 Assess heritage and cultural value of trees</p> <p>2.8 Assess habitat, ecology and environmental impact of trees on site</p> <p>2.9 Assess impact of location to existing and past site structures</p> <p>2.10 Determine the retention value</p> <p>2.11 Compile all tree assessment data required for report</p>
3. Document preliminary arboricultural report	<p>3.1 Record all trees and groups of trees suitable for retention</p> <p>3.2 Determine indicative tree protection zone (TPZ) and structural root zone (SRZ) for each tree</p> <p>3.3 Plot tree identifiers and indicative TPZ on survey plan</p> <p>3.4 Document preliminary arboricultural report</p>
4. Assess impact of proposed development on trees	<p>4.1 Interpret existing plans, working drawings, terms and symbols</p> <p>4.2 Interpret development and design language</p> <p>4.3 Assess potential mechanical and chemical impact of development on trees and determine controls</p> <p>4.4 Determine impact of proposed development on trees</p>

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<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	4.5 Provide preliminary feedback to client on potential areas of improvement
5. Contribute to design development	5.1 Liaise with client on design of development to minimise impact on trees 5.2 Assess constructability of design to ensure impacts on trees are minimised 5.3 Liaise with design team to develop tree sensitive design and construction methods
6. Determine indicative and actual TPZ	6.1 Assess development requirements for site access and logistics 6.2 Review indicative TPZ 6.3 Determine extent of encroachment into indicative TPZ 6.4 Determine impact of works on SRZ 6.5 Determine extent of actual SRZ 6.6 Determine actual TPZ for trees to be retained 6.7 Define and record the actual TPZ
7. Establish site conditions to retain tree viability to major encroachment	7.1 Determine level of encroachment into TPZ following design development 7.2 Assess impact of major encroachment on tree 7.3 Consider implications of major encroachment on health, physiology and structural integrity of tree 7.4 Assess impact on soil characteristics and volume of past, existing and future structures on tree 7.5 Consider site conditions and design factors to minimise impact of encroachment on tree 7.6 Establish site conditions and design factors required to retain viability of tree 7.7 Determine additional remedial measures to protect tree viability
8. Develop protection measures and advise client	8.1 Investigate tree protection devices and techniques to mitigate development activities 8.2 Specify protection devices, techniques and systems to minimise impact of development 8.3 Specify construction operations to minimise impact on trees

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	8.4 Produce working drawings for installation and construction of tree protection systems 8.5 Provide advice on tree removal and tree pruning program to client
9. Document the relevant reports	9.1 Prepare draft arboricultural impact assessment report 9.2 Document tree protection recommendations and drawings 9.3 Prepare and document tree management and monitoring guidelines and strategies for addressing potential problems 9.4 Consolidate reports, plans and guidelines into final arboricultural impact assessment report and present to client 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	<ul style="list-style-type: none"> Interpret legislative documents, industry standards, plans and specifications to identify critical information and concepts for use in tree assessment reports
Writing	<ul style="list-style-type: none"> Create complex documents and reports demonstrating control over different writing styles and purposes
Numeracy	<ul style="list-style-type: none"> Accurately interpret numeric data from plans, specifications and site measurements Perform calculation for measuring and estimating tree dimensions and the extent of TPZ and SRZ

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCARB509	AHCARB504	Prerequisite unit removed	Equivalent

Develop an arboricultural impact assessment report	Develop an arboricultural impact assessment report	Element added Elements and performance criteria clarified Foundation skills added Assessment requirements updated	
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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>