



Australian Government

AHCARB613 Conduct complex tree hazard and health assessment post-fire

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 10.0.

Application

This unit of competency describes the skills and knowledge required to conduct complex assessment of risks, health and values of fire affected or fire damaged trees post-early stages of bushfire recovery and make recommendations on tree treatment.

The unit applies to professional arborists whose work involves complex hazard and health assessment of fire affected or fire damaged trees post-early stages of bushfire recovery.

No licensing, legislative or certification requirements apply to this unit at the time of publication

Pre-requisite Unit

The pre-requisite units of competency for this unit are:

- AHCARB513 Examine and assess trees
- AHCARB408 Perform a ground-based tree defect evaluation

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. Prepare to undertake assessment of fire damaged or fire affected tree	1.1 Determine job requirements from work plan or instruction and, where required, seek clarification from appropriate personnel 1.2 Follow environmental and safety procedures, including use of personal protective equipment, hazard and risk control measures for

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	the work tasks 1.3 Assess and maintain up to date information on topography and weather conditions in areas where tree assessments are to be conducted 1.4 Confirm chain of command and communication protocols that apply in bushfire containment and recovery operations
2. Conduct hazard assessment of fire damaged or fire affected tree	2.1 Conduct hazard assessment for route to and areas around tree to determine it is safe to approach 2.2 Locate and determine tree species and tree position in relation to site topography and other hazards at site 2.3 Visually assess extent of fire damage to crown, trunk and root 2.4 Identify structural and physiological defects in tree 2.5 Assess external factors that may cause tree or its limbs and branches to fall 2.6 Determine risks posed by tree according to industry guidelines and agency approved procedures 2.7 Identify tree hazard class according to industry guidelines and agency approved procedures 2.8 Determine appropriate risk treatment to mitigate tree hazard according to industry guidelines and agency approved procedures
3. Conduct assessment of health and values of fire damaged or fire affected tree	3.1 Determine fire impact on soil and its properties, and subsequent effects of soil on tree root and sap function 3.2 Assess solid components of tree and determine whether there is adequate wood present to sustain tree 3.3 Assess post-fire survivability of tree based on its species, fire damage and estimated age and dimensions 3.4 Assess ecological, cultural and economic values of tree
4. Assess options for treatment of fire damaged or fire affected tree	4.1 Determine treatment options for tree taking into account tree hazard, health and values assessment and according to industry guidelines and agency approved procedures 4.2 Mark tree for treatment according to industry guidelines and agency approved procedures 4.3 Record position of tree using Global Navigation Satellite System (GNSS) or manual mapping

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	4.4 Record and report outcomes of tree assessment including proposed treatment to appropriate personnel

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	Interpret complex workplace documentation on post-bushfire survival indicators for different tree species

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCARB613 Conduct complex tree hazard and health assessment post-fire	Not applicable	The unit has been created to address a skill or task required by industry that is not covered by an existing unit	Newly created

Links

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