



Australian Government

AHCARB324 Use cranes to access and dismantle trees

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 use cranes to access and dismantle trees in close proximity to assets and in difficult or hazardous circumstances.

The unit applies to individuals who work in arboriculture under broad supervision 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

The arboriculture industry requires that all tree work with a crane is undertaken according to preferred industry practices (as outlined in the Companion Volume).

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

Pre-requisite Unit

The prerequisite unit of competency for this unit is:

- CPCCDO3011A Perform dogging.

Note the following chain of prerequisites that also applies to this unit.

Unit of competency	Prerequisite requirement
CPCCDO3011A Perform dogging	CPCCOHS2001A Apply OHS requirements, policies and procedures in the construction industry

Unit Sector

Arboriculture (ARB)

Elements and Performance Criteria

Elements	Performance Criteria
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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>
1. Plan for the use of cranes for tree access and dismantling	1.1 Identify requirements for crane assisted tree work 1.2 Determine the requirements for crane access 1.3 Inspect site to identify site conditions, features and hazards that may affect crane set-up and operation 1.4 Determine crane type and size, and develop plan for crane assisted tree work 1.5 Communicate requirements to crane operator to confirm plan 1.6 Confirm availability of emergency procedures, rescue personnel and equipment
2. Prepare to conduct crane work	2.1 Determine access to site and gain approval from stakeholders 2.2 Confirm site preparations and notification of local residents and authorities according to dismantling plan 2.3 Liaise with crane operator and crane crew to confirm set-up, clearances from electrical services and working area 2.4 Undertake a site-specific job safety analysis (JSA) and record and implement control measures according to workplace safety procedures 2.5 Liaise with crane operator to determine load limit at working radius
3. Prepare arborist equipment ready for dismantling operations	3.1 Inspect trees for defects to inform planned tree access and dismantling strategy 3.2 Discuss strategy with crane operator and crew to confirm site, environment and crane working limitations 3.3 Determine lowering and processing zones and communicate to work team 3.4 Carry out pre-operational and safety checks on arboriculture tools and equipment required for dismantling 3.5 Select, check and use personal protective equipment
4. Access trees to conduct work	4.1 Select and use safe access methods to conduct crane dismantling work 4.2 Use climbing techniques to access trees to conduct crane work 4.3 Use crane to access trees using an approved crane access method according to industry codes, procedures and legislative and regulatory requirements 4.4 Communicate with crane operator and observer using agreed communication methods

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	4.5 Use climbing techniques to access work positions and perform dismantling operations
5. Prepare for crane dismantling and attach crane to tree sections	5.1 Maintain communication with crane operator and work team during operations using agreed communication methods 5.2 Use hand and whistle signals to communicate with crane operator according to industry standards 5.3 Select and apply crane lifting methods and sequence according to dismantling strategy and safety procedures 5.4 Determine weight of each tree section and communicate to crane operator 5.5 Attach crane with lifting gear to each tree section according to load limits, centre of gravity and planned lifting operation 5.6 Communicate pre-tension requirements to crane operator
6. Use crane to dismantle tree	6.1 Perform cuts to remove tree sections according to desired lifting operation 6.2 Control and monitor tree section removal and direct crane operator throughout lifting operations 6.3 Communicate with crane operator regarding lifting operation and adjust dismantling strategy 6.4 Apply arborist rigging and felling techniques when crane support is not required 6.5 Adjust work pace and methods to match processing capacity of ground crew and environmental conditions 6.6 Perform final dismantling and lifting operations for tree removal work according to specifications
7. Complete tree dismantling procedures	7.1 Confirm completion of tree dismantling work with crane operator according to workplace procedures 7.2 Clean, check and store tools and equipment according to workplace procedures 7.3 Record completion of tree removal, and report to stakeholders according to workplace procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCARB324 Use cranes to access and dismantle trees	Not applicable	New 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>