

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.

AHCARB207	Perform ground based rigging
Application	<p>This unit of competency describes the skills and knowledge required to select, check and install rigging systems to support aerial tree work for the controlled descent of loads to drop zone. This unit does not cover crane operations.</p> <p>The unit applies to individuals working in a broad range of job contexts who undertake defined routine activities under supervision. They exercise limited autonomy within established and well known parameters, providing solutions to a limited range of predictable problems.</p> <p>Legislation, regulations and by-laws relating to the treatment and removal of trees apply nationally and in some states, territories and jurisdictions.</p>
Prerequisite Unit	Nil
Unit Sector	Arboriculture (ARB)

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.Assist in preparation of work site	1.1 Confirm work instructions and location of worksite with supervisor 1.2 Identify hazards, assess risks and confirm controls with supervisor 1.3 Confirm availability of first aid and emergency personnel, equipment and procedures
2.Prepare for rigging	2.1 Examine tree for defects and contribute to tree assessment process 2.2 Discuss and confirm rigging method with work crew 2.3 Confirm rigging method complies with identified risk controls 2.4 Select rigging equipment and check for defects removing defective equipment from service 2.6 Select, check and use personal protective equipment
3.Perform rigging operations	3.1 Communicate with work team during operations according to work site and environmental conditions using methods agreed with work team 3.2 Tie, dress, set and finish rigging knots and hitches according to rigging system requirements 3.3 Monitor rigging system, work team movements and environmental conditions to ensure safe working conditions 3.4 Control load to drop zone and adjust rigging according to mass and dimensions of load 3.5 Disconnect load from rigging system 3.6 Re-check rigging equipment components for defects and remove defective equipment from service 3.7 Return rigging components to aerial work team
4.Complete rigging operations	4.1 Confirm completed rigging operations with aerial work team 4.2 Remove and dismantle rigging system from tree 4.3 Clean, check and store tools, equipment and machinery according to workplace procedures 4.4 Report and tag defective tools and equipment 4.5 Clean and store personal protective equipment 4.6 Record and report rigging operation outcomes according to workplace procedures

Foundation Skills	
<i>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.</i>	
Skill	Description
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Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
AHCARB207 Perform ground based rigging	AHCARB207 Perform ground based rigging	Changes to PC 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
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TITLE	Assessment requirements for AHCARB207 Perform ground based rigging
Performance Evidence	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.</p> <p>There must be evidence that the individual has :</p> <ul style="list-style-type: none"> • confirmed work instructions and location of worksite with supervisor • identified site hazards, assessed risks and confirmed controls with supervisor • confirmed the availability of first aid and emergency personnel, equipment and procedures • contributed to tree assessment process by assessing trees for defects • discussed and confirmed rigging method with work crew according to risk assessment • selected rigging equipment and checked for defects and removed defective equipment from service • selected , checked and used appropriate personal protective equipment • communicated with work team during operations using agreed communications methods • tied, dressed, set and finished arborist knots according to rigging task including demonstrated the following knots: <ul style="list-style-type: none"> • Alpine butterfly knot • Bowline on the bight • Cows hitch with better half • Clove hitch and two half hitches • Half hitch pre knot • Klemheist friction knot • Marline pre knot • Marline spike hitch • Riggers knot and two half hitches • Running bowline • Sheet bend • Slippery sheet bend • Timber hitch • Zeppelin bend • monitored rigging system, work team movements and environmental conditions for safe work conditions • controlled load to drop zone adjusting rigging according to mass and dimensions of load • disconnected load from rigging system • returned rigging components to aerial work team after checking components for defects and removing defective equipment • confirmed completion of rigging operation with aerial work team and removed and dismantled rigging system • cleaned, checked and stored tools and equipment from worksite • reported and tagged defective tools and equipment • cleaned and stored personal protective equipment • recorded and reported rigging outcomes according to workplace procedures. 	

Knowledge Evidence
<p>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:</p> <ul style="list-style-type: none"> • safe operations in ground based rigging including: <ul style="list-style-type: none"> • first aid, emergency personnel, equipment and procedures • work health, safety, site, environmental and traffic control measures • identification of ground based hazards • above ground hazards and risk • personal protective equipment • monitoring the safety of working conditions • procedures for tree assessment before rigging operations including: <ul style="list-style-type: none"> • tree examination for tree defects

<p>Knowledge Evidence</p> <ul style="list-style-type: none"> • ground based rigging procedures and practices including: <ul style="list-style-type: none"> • rigging equipment and their performance • rigging methods • rigging system • estimating mass and dimensions of loads for rigging system design • examination of rigging equipment for defects and procedures to manage defective equipment • assembling rigging equipment • installing rigging equipment • checking rigging equipment • tying, dressing, setting and finishing arborist knots for rigging • communications strategies used in arboriculture including: <ul style="list-style-type: none"> • voice • hand • whistle signals • electronic communications • communications specific to the rigging task • techniques for controlling, raising, lowering and redirecting loads including balancing load on centre of gravity • cleaning storing and maintaining tools and equipment • records and reporting procedures for rigging operations. 	
<p>Assessment Conditions</p> <p>Assessment of skills must take place under the following conditions:</p> <ul style="list-style-type: none"> • physical conditions: <ul style="list-style-type: none"> • access to worksite with aerial tree operations or environment that accurately represents workplace conditions • resources, equipment and materials: <ul style="list-style-type: none"> • rigging equipment • static and dynamic rope systems • harnesses • lowering and friction devices • high decibel whistle • personal protective equipment (PPE) • first aid and emergency kit • rescue kit • specifications: <ul style="list-style-type: none"> • workplace and manufacturer instructions for safe operation of rigging equipment • instructions for rigging operation • procedures for application of treatments • materials safety data sheets • chemical and product labels. • relationships: <ul style="list-style-type: none"> • aerial work team <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p> <p>In addition, the following specific assessor requirements apply to this unit:</p> <ul style="list-style-type: none"> • arboriculture vocational competencies at least to the level being assessed • current arboriculture industry skills directly relevant to the unit of competency being assessed. 	
<p>Links</p>	<p>Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72</p>