



Australian Government

Assessment Requirements for AHCARB213

Perform ground-based rigging

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.

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 installed rigging equipment and controlled at least six loads from an aerial location to the drop zone using ropes, knots and rigging system appropriate for the load dimensions and mass.

There must also be evidence that the individual has:

- confirmed work instructions and location of worksite
- identified site hazards, assessed risks and confirmed controls with supervisor including:
 - selected, checked and used appropriate personal protective equipment
 - confirmed the availability of first aid and emergency equipment, personnel and procedures
 - implemented workplace health, safety, environmental and traffic control measures
 - contributed to tree assessment process by assessing trees for defects
 - checked and removed defective equipment from service
 - monitored rigging system, work team movements and environmental conditions for safe work conditions
- communicated with work team and discussed and confirmed rigging method and rigging equipment during operations using agreed communications methods
- tied, dressed, set and finished arborist knots according to rigging task, including demonstrating the following knots:
 - alpine butterfly knot
 - bowline on the bight
 - cow 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
- controlled load to drop zone, adjusting rigging according to aerial worker instructions and disconnected load from rigging system
- returned rigging components to aerial work team after checking components for defects
- confirmed completion of rigging operation with aerial work team and removed and dismantled rigging system including:
 - cleaned, checked and stored tools and equipment from worksite
 - reported and tagged defective tools and equipment
- recorded and reported rigging outcomes according to workplace procedures.

All ground-based tree rigging work is required to be performed according to preferred industry practices (as outlined in the Companion Volume).

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:

- current industry practices (as outlined in the Companion Volume) for ground-based tree rigging work and tree dismantling
- safe operations in ground-based rigging, including:
 - first aid, emergency personnel, equipment and procedures
 - workplace 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 tree examination for tree defects
- ground-based rigging procedures and practices, including:
 - rigging equipment and its performance
 - rigging methods and rigging systems
 - examination of rigging equipment for defects, and procedures to manage defective equipment
 - assembling and installing rigging equipment
 - checking rigging equipment
 - tying, dressing, setting and finishing arborist knots for rigging

- communications strategies used in arboriculture, including:
 - 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.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - worksite with aerial tree operations or environment that accurately represents workplace conditions
- resources, equipment and materials:
 - rigging equipment
 - static and dynamic rope systems
 - harnesses
 - lowering and friction devices
 - high decibel whistle
 - personal protective equipment
 - first aid and emergency kit
 - rescue kit
- specifications:
 - access to current preferred industry practices (as outlined in the Companion Volume) for ground-based tree rigging work and tree dismantling
 - workplace and manufacturer instructions for safe operation of rigging equipment
- relationships:
 - supervisor and aerial work team.

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

- arboriculture vocational competencies at least to the level being assessed
- current arboriculture industry skills directly relevant to the unit of competency being assessed.

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>