



Australian Government

Assessment Requirements for FWPCOT3330 Apply tree jacking techniques in felling trees

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 7.0.

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 prepared, planned and applied tree jacking techniques on two trees according to work order and workplace and safety procedures.

In performing this activity, the individual has:

- assessed type, quantity and characteristics of trees to be jacked, as well as terrain and environmental conditions, to plan fall direction and take actions to mitigate risks and hazards
- made jacking slots, used tree jacks and fell trees using planned safe escape route according to safety procedures
- reported tree jacking process and equipment faults to appropriate personnel
- performed operator maintenance on a chainsaw on one occasion
- followed safety and environmental protection requirements for the task, including the use of personal protective equipment (PPE).

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:

- key features of environmental conditions and effects on tree felling:
 - general forest lean
 - ground growth
 - ground hazards and obstacles
 - ground slope
 - gullies
 - presence and density of seed and habitat trees
 - water courses
 - wet and adverse weather conditions

- wind speed and direction
- environmental protection practices:
 - safe disposal of waste material
 - cleaning of plant, tools and equipment
- typical tree defects and how these affect tree jacking and felling:
 - stability
 - insect defects
 - knots
 - resin pockets
 - shakes
- techniques used in the tree jacking process:
 - tree jacking
 - chainsaw cutting sequences and techniques used to control direction of fall
 - clearing trees that hang up
- communication methods used for tree jacking activities:
 - verbal
 - hand signals
 - eye contact with other operators
 - use of electronic communication devices
- typical industry chain of command for communication of information and instruction
- types, purpose, features, operation and basic non-specialist repair and maintenance of tree jacking tools and equipment:
 - tree jacks
 - chainsaws
 - maintenance tools and equipment
 - personal protection equipment
- workplace procedures specific to tree jacking activities:
 - workplace health and safety, with particular emphasis on PPE, pre-start-up checks and equipment lock-out for safe use of chainsaws
 - use and maintenance of equipment
 - communication reporting line during tree jacking process
 - recording and reporting tree jacking process and equipment faults.

Assessment Conditions

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

- physical conditions:
 - skills must be demonstrated in a forest work environment or an environment that accurately represents workplace conditions
- resources, equipment and materials:

- trees to be felled that are 180 degrees away from their natural direction of fall
- tools and equipment for tree jacking operations, including tree jacks, chainsaws and maintenance tools and equipment for chainsaws and tree jacks
- PPE suitable for tree jacking activities and chainsaw maintenance
- specifications:
 - manufacturer instructions for use and maintenance of equipment
 - work order or instruction with specific instructions for tree jacking operations
 - workplace safety and environmental policies and procedures applicable to tree jacking operations.

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

Links

Companion Volumes, including Implementation Guides, are available at VETNet: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>