

FWPHARXXXX, Plan for and apply tree jacking techniques in felling trees,

Modification history

Release	Comments
<u>Release 2</u>	<u>This version released with FWP Forest and Wood Products Training Package Version 7.0.</u>
Release 1	This version released with FWP Forest and Wood Products Training Package Version 1.0.

FWPHARXXXX	<u>Apply tree jacking techniques in felling trees,</u>
Application	<p><u>This unit of competency describes the skills and knowledge required to use tree jacking techniques in the process of felling trees 180 degrees away from their natural direction of fall using purpose built tree jacks.</u></p> <p>The unit applies to <u>individuals whose job roles includes applying tree jacking techniques in the process of felling trees.</u></p> <p><u>All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.</u></p> <p><u>No licensing, legislative or certification requirements apply to this unit at the time of publication.</u></p>
Prerequisite Unit	Nil
Unit Sector	<u>Harvesting and Haulage (HAR)</u>

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 for tree jacking	<p>1.1 <u>Review work order or instruction to determine job requirements, and where required, seek clarification from appropriate personnel</u></p> <p>1.2 <u>Identify type and quantity of trees to be tree jacked and assess activities for safety and environmental protection practices</u></p> <p>1.3 <u>Review workplace health and safety procedures, including the safe use of personal protective equipment, tools and equipment and manual handling techniques</u></p> <p>1.4 <u>Identify, assess and take actions to mitigate risks and hazards associated with tree jacking operations</u></p> <p>1.5 <u>Identify and implement workplace environmental protection procedures for minimising and disposing of waste material, recycling and reusing materials and cleaning tools and equipment</u></p> <p>1.6 <u>Identify emergency and evacuation procedures to follow in the event of an incident or accident</u></p> <p>1.7 <u>Consult with appropriate personnel to ensure that work is coordinated effectively with others in the workplace</u></p> <p>1.8 <u>Select tools, equipment, and materials for tree jacking and check for serviceability according to workplace procedures</u></p> <p>1.9 <u>Plan tree jacking activities according to workplace health and safety (WHS) procedures and work order.</u></p>

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If the unit content (e.g. elements and PCs, assessment requirements) includes specific references to health and safety legislative requirements, then we must allow for the fact that Vic and WA still use occupational health and safety, rather than the model work health and safety legislation. If necessary, the following note can be inserted into the Application:¶¶
All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace. ¶¶
Note: If there are other specific requirements that industry requires, e.g. food safety or environmental requirements, then modify the note accordingly, e.g. All work must be carried out to comply with workplace procedures according to state/territory health and safety and food safety regulations, legislation and standards that apply to the workplace.¶¶
[The next paragraph must include information about the unit's relationship to the specific occupational licensing, legislation or certification requirements. If there are no requirements use the following statement.]¶¶

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Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
2. Plan tree jacking	2.1 Assess environmental conditions and use outcomes to plan felling of each tree. 2.2 Monitor location and movement of other personnel and modify work to ensure safety. 2.3 Assess tree, location and stability for conditions likely to affect safety of tree jacking activities. 2.4 Visually assess tree for defects, grade and recovery status. 2.5 Select escape route, clear route and growth around tree manually or mechanically. 2.6 Assess fall direction and allowable degree of error, considering hang ups, damage, extraction constraints and available open space. 2.7 Plan cutting sequence to control direction of fall and minimise damage to tree and surrounding environment. 2.8 Mark trees too dangerous to fell safely and refer to appropriate personnel.
3. Tree jack trees	3.1 Complete equipment pre start-up checks. 3.2 Remove and clear leaders according to tree jacking work plan. 3.3 Diagnose unexpected characteristics of tree and review tree jacking work plan. 3.4 Make jacking slots to provide for placement of tree jacks according to planned falling direction. 3.5 Adjust cutting technique and use tree jacks to control movement and direction of tree being felled. 3.6 Complete felling and use planned safe exit route according to safety procedures. 3.7 Monitor ground movement of trees and assess and clear trees that hang up. 3.8 Record and report tree jacking process and equipment faults to appropriate personnel.
4. Complete chainsaw and tree jack operator maintenance	4.1 Follow workplace safety procedures to lock out equipment. 4.2 Check chain for bluntness or damage. 4.3 Remove, sharpen, adjust and replace chain and other components according to with manufacturer recommendations. 4.4 Assess and adjust chainsaw set-up to suit cutting conditions. 4.5 Maintain operational condition of chainsaw to meet standards prior to use. 4.6 Check and service tree jacks according to manufacturer recommendations.

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
Numeracy	<ul style="list-style-type: none"> perform estimations and basic calculations related to number, time, length and diameter of trees.
Oral communication	<ul style="list-style-type: none"> ask questions and apply active listening skills to clarify contents of work plans provide clear, unambiguous verbal directions to others about jacking and felling process to ensure safety of self and others.
Reading	<ul style="list-style-type: none"> read routine, familiar workplace documents including WHS procedures, work plans and manufacturer manuals.
Writing	<ul style="list-style-type: none"> complete basic written reports on tree jacking process and equipment faults.

Unit Mapping Information

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Code and title current version	Code and title previous version	Comments	Equivalence status
FWP PHARXXXX Apply tree jacking techniques in felling trees, Release 2	FWP PHAR4201 Apply tree jacking techniques, Release 1	Revised Title Updated Application Statement Revised Elements and Performance Criteria Updated Performance Evidence Minor change to Knowledge Evidence Updates Assessment Conditions to comply with Standards for Training Packages	Equivalent
Links		Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47	

TITLE	Assessment requirements for FWP PHARXXXX Apply tree jacking techniques in felling trees.
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:	
<ul style="list-style-type: none"> apply tree jacking techniques to three trees according to work order and workplace and safety procedures performed operator maintenance on a chainsaw on one occasion. 	
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:	
<ul style="list-style-type: none"> key features of environmental conditions and effects on tree felling: <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> safe disposal of waste material cleaning of plant, tools and equipment typical tree defects and how these affect tree jacking and felling <ul style="list-style-type: none"> stability insect defects knots resin pockets shakes techniques used in the tree jacking process. 	

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Knowledge Evidence

- 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 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.

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[physical conditions:]¶

[e.g. skills must be demonstrated in [a commercial kitchen/a racing stable/veterinary practice/vineyard] or an environment that accurately represents workplace conditions]¶

[resources, equipment and materials:]¶

[e.g. live horses]¶

[e.g. use of specific tools]¶

[e.g. use of specific items of personal protective equipment]¶

[specifications:]¶

[e.g. use of specific workplace documents such as policies, procedures, processes, forms]¶

[e.g. use of manufacturer's operating instructions for specific equipment, machinery, etc.]¶

[e.g. access to specific safety data sheets]¶

[e.g. use of workplace instructions/job specifications/client briefs]¶

[access to specific legislation/codes of practice]¶

[relationships: (include only if the individual needs to interact with internal and/or external people during assessment of skills):]¶

[e.g. client(s), customer(s)]¶

[e.g. team member(s), supervisor(s)]¶

[timeframes: (include only if time is an essential assessment condition)]¶

[e.g. according to time specified in job sheet]¶

[e.g. within a specific time period]¶

[final point only ends with a full stop.]¶

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

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Delete the following if there are no additional assessor requirements.¶

[In addition, the following specific assessor requirements apply to this unit:]¶

SI Bullet List 1¶

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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 or wood products work environment or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - trees to be felled which 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
 - personal protective equipment suitable for tree jacking activities and chainsaw maintenance
 - manufacturers' instructions for use and maintenance of equipment
- specifications:
 - access to work order or instruction with specific instructions for tree jacking operations
 - access to workplace policies and procedures which cover current Work Health and Safety Acts or Occupation Health and Safety Acts, regulations and related industry standards and codes of practice applicable to tree jacking operations
 - access to workplace policies and procedures which cover current Environment Protection Acts, regulations and related industry standards and codes of practice applicable to tree jacking
 - workplace procedures for 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>