



Australian Government

FWPHAR2207 Trim and cut harvested trees

Release: 2

FWPHAR2207 Trim and cut harvested trees

Modification History

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version 5.0.
Release 1	This version released with FWP Forest and Wood Products Training Package Version 2.0.

Application

This unit of competency describes the outcomes required to trim and cut harvested (felled) trees with a chainsaw for commercial production. Work is completed in a forest or forest farm setting and includes operator maintenance.

The unit applies to Forestry Worker, Chainsaw Operator, Arboriculture Technician, Farm Forestry Worker, Plantation Forest Officer.

No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Forest Growing and Management

Harvesting and Haulage

Elements and Performance Criteria

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 trimming and cutting	1.1 Identify site environmental protection measures and adhere to in line with relevant legislation and regulations 1.2 Review work order and where required check with appropriate personnel

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Select appropriate personal protective and other equipment and check for operational effectiveness, including pre-start checks 1.4 Plan trimming and cutting activities in line with work order and environmental conditions
2. Visually assess trees and suitability for cutting.	2.1 Assess tree location and stability for conditions likely to affect safety of trimming and cutting activities 2.2 Visually assess trees for defects, grades and recovery status. 2.3 Assess trees for extraction and suitable transport method 2.4 Mark trees too dangerous to cut safely and refer to appropriate personnel
3. Plan cutting.	3.1 Move or stabilise tree for safe cutting in line with site procedures 3.2 Select cutting pattern to optimise time, volume recovery and quality 3.3 Plan cutting sequence to maintain control of cut sections and minimise cutting problems 3.4 Select, measure and mark cutting positions in line with work requirements and industry standard lengths 3.5 Clear debris from work area to allow safe access and prevent saw damage and personal injury
4. Use chainsaw to trim and cut trees	4.1 Monitor location and movement of other personnel and modify work to ensure safety 4.2 Secure tree section on each side of planned cut; evaluate and control potential movement 4.3 Operate saw to cut tree and adjust cutting technique in response to movement and condition of tree 4.4 Complete cut once started and minimise capping and splitting 4.5 Square cut butts, trim accessible branches and knots and remove head of tree 4.6 Prepare logs for extraction in line with organisational requirements
5. Complete operator maintenance	5.1 Inspect equipment on completion of trimming and cutting activities 5.2 Follow organisational safety procedures to lock out equipment 5.3 Check chain for bluntness or damage

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	5.4 Remove, sharpen, adjust and replace chain and other components in line with manufacturer's recommendations 5.5 Record and report production outcomes, equipment faults and maintenance requirements to appropriate personnel

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	- Estimate felled tree dimensions, including length, diameter and volume - Plan time efficient cutting patterns and sequences - Complete routine calculations and report on size, length, diameter and grade of cut trees
Oral communication	Ask open, probing and closed questions and actively listen to clarify contents of work plans
Reading	- Interpret: - workplace health and safety and other organisational procedures - work orders - manufacturers maintenance recommendations
Writing skills	Complete accurate basic records for tree trimming and cutting processes, equipment faults and maintenance requirements
Get the work done	Efficiently and logically sequence the stages of preparation for and cutting of trees using work order to guide activities

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPHAR2207	FWPHAR2207	Minor edits to achieve	Equivalent unit

Trim and cut harvested trees Release 2	Trim and cut harvested trees Release 1	consistency with wording in another FWPHAR unit; and enable flexibility of the unit application	
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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPHAR2207 Trim and cut harvested trees

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Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit.

There must be evidence that, on at least one occasion, the individual has:

- followed organisational policies and procedures relevant to trimming and cutting harvested trees
- effectively communicated and worked safely
- safely and efficiently used a chainsaw to complete the following activities:
 - trim and cut hardwood or softwood trees
 - delimb trees
 - trim branches
 - trim burls and other small growths
- used the following cutting techniques:
 - bridging cuts
 - swinging cuts
 - side bind cuts
 - boring
 - wedge cut
- used wedges
- trimmed and cut trees in varied weather conditions
- completed maintenance on a chainsaw.

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:

- purpose, features, operation and basic non-specialist repair and maintenance of chainsaws, including:
 - pre-start up checks
 - inspection, identification and replacement of bar, chain and drive sprockets
 - chain sharpening
 - bar oil checks and top-up
 - air filter, check, clean and replacement
 - refuelling
- range of chainsaw cutting techniques, including:
 - bridging cuts
 - swinging cuts
 - side bind cuts
 - delimbing
 - boring
 - wedge cut
- use of wedges
- cutting patterns used to optimise time and recovery of product from trees
- cutting sequences used to maintain control of cut sections and minimise cutting problems
- key features of , varying site conditions and effects on tree cutting and trimming activities, including:
 - general forest lean
 - ground growth
 - ground hazards and obstacles
 - ground slope
 - gullies
 - presence and density of seed and habitat trees
 - water courses
- key features of varying weather conditions and effects on tree cutting and trimming activities, including:
 - dry, wet and adverse weather conditions
 - low and moderate wind speed and direction
- typical tree defects and how these affect tree cutting activities and quality of finished product, including:
 - shakes
 - insect defects
 - knots and resin pockets
 - pipe
 - lumps
 - bumps
 - drysides
- range of industry standard:

- lengths and tolerances and applicable terminology
- grades for log and applicable terminology
- methods for assessing chain condition
- organisational policies and procedures specific to tree trimming and cutting activities, including:
 - workplace health and safety with particular emphasis on equipment lock out and use of personal protective equipment
 - communication reporting lines
 - recording and reporting production outcomes, equipment faults and maintenance requirements
- environmental protection practices for forest and farm forest settings, including:
 - soil and water protection
 - action to limit the impact to ground growth, canopy, density of trees
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing timber and other waste.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting
- resources, equipment and materials:
 - chainsaws
 - chainsaw fuel and oil containers
 - hardwood or softwood trees for cutting
 - hammer
 - axe
 - wedges
 - cant hook or breaking bar
 - tool belt
 - loggers tape
 - maintenance tools and equipment for chainsaws
 - personal protective equipment suitable for cutting trees and maintaining chainsaws
- specifications:
 - manufacturer instructions for use and maintenance of equipment
 - work order with specific instructions for tree cutting activities
 - template reports for recording tree cutting outcomes, equipment faults and maintenance requirements
 - organisational policies and procedures for tree trimming and cutting activities.

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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