



Australian Government

FWPCOT2239 Trim and cut felled trees

Release: 3

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Modification History

Release	Comments
Release 3	This version released with FWP Forest and Wood Products Training Package Version 5.0.
Release 2	This version released with FWP Forest and Wood Products Training Package Version 3.0.
Release 1	This version released with FWP Forest and Wood Products Training Package Version 2.0.

Application

This unit describes the outcomes required to trim and cut felled trees with a chainsaw and to complete operator maintenance. It applies to situations where the production of timber is not the primary focus of the activity.

The unit applies to a forestry worker, chainsaw operator, forest harvester, harvesting technician and arboriculture worker.

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

Pre-requisite Unit

Nil

Unit Sector

Common Technical (COT)

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 Review work order and where required check with appropriate personnel 1.2 Select appropriate personal protective and other equipment and

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	check for operational effectiveness 1.3 Plan trimming and cutting activities in line with work order and environmental conditions
2. Visually assess felled trees	2.1 Assess tree location and stability for conditions likely to affect safety of trimming and cutting activities 2.2 Visually assess tree for defects and identify stresses within tree 2.3 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 and manageable removal of sections 3.3 Identify options for utilisation of product 3.4 Plan cutting sequence to maintain control of cut sections and minimise cutting problems 3.5 Select cutting positions considering tree stresses 3.6 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 Establish and maintain communication to ensure safety 4.3 Secure tree section on each side of planned cut; evaluate and control potential movement 4.4 Operate chainsaw to cut tree and limbs and adjust cutting technique in response to movement and condition of tree and limbs 4.5 Prepare cut sections for removal from the site
5. Complete equipment maintenance	5.1 Follow organisational safety procedures to lock out equipment 5.2 Check chain for bluntness or damage 5.3 Remove, sharpen, adjust and replace chain and other components in line with manufacturer recommendations 5.4 Record and report trimming and cutting records, 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	- Plan time-efficient cutting patterns and sequences - Complete routine calculations and report on size, length and diameter of cut trees
Oral communication	Ask open 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	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
FWPCOT2239 Trim and cut felled trees Release 3	FWPCOT2239 Trim and cut felled trees Release 2	Minor edits to achieve consistency with wording in another FWPHAR unit; and enable flexibility of the unit application	Equivalent unit

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 FWPCOT2239 Trim and cut felled 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:

- safely and efficiently used a chainsaw to complete these 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
 - ripping cuts
- trimmed and cut trees in varied weather conditions
- completed the following maintenance activities on a chainsaw:
 - sharpening
 - refuelling
 - inspection, identification and replacement of bar, chain, drive sprockets
 - bar oil checks and top up
 - air filter, check, clean and replacement

- cleaning of saw body, air intake vents and cooling fans
- fitting spare chain and tension chain.

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:

- environmental protection measures including:
 - action to limit the impact of noise, wind speed and direction, fallen trees, ground slope, ground hazards and obstacles, general forest lean
 - action to limit the impact to ground growth, canopy, density of trees
 - action to limit the impact on flora, fauna and habitat
 - soil and water protection
- cleaning plant, tools and equipment
- disposing of, recycling and reusing timber and other waste
- key features of these varying site conditions and effects on tree cutting and trimming activities:
 - ground growth
 - ground hazards and obstacles
 - ground slope
- key features of these varying weather conditions and effects on tree cutting and trimming activities:
 - dry, wet and adverse weather conditions
 - low and moderate wind speed and direction
- typical tree defects and how they affect tree cutting activities:
 - splits
 - falling damage
 - fire damage
 - insect infestation
 - pipe
 - shake
 - twist
 - knots and resin pockets
 - the presence of foreign bodies such as stakes and nails
- typical tree stresses and how they affect tree cutting activities:
 - tension (fibres being stretched)
 - compression (fibres being squashed)
 - neutral fibres
- range of chainsaw cutting techniques:
 - bridging cuts
 - swinging cuts

- side bind cuts
- delimbing
- boring
- wedge cut
- ripping cuts
- 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
- purpose, features, operation and basic non-specialist repair and maintenance of chainsaws
- methods for assessing chain condition
- organisational procedures specific to tree trimming and cutting activities:
 - workplace health and safety with particular emphasis on equipment lock out and use of personal protective equipment
 - communication reporting lines
 - recording and reporting tree cutting outcomes, equipment faults and maintenance requirements.

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
 - support tools appropriate for work tasks (hammer, wedges, logging tape, cant hook and/or breaking bar)
 - mobile plant and equipment appropriate for work tasks (wood chipper and/or loaders)
 - maintenance tools and equipment for chainsaws
 - personal protective equipment suitable for cutting trees and maintaining chainsaws
- specifications:
 - manufacturer's 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 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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