Modification history

Release	Comments This version released with FWP Forest and Wood Products Training Package Version 6.0.		
Release 1			
FWPCOT2XXX	Fall trees manually (basic)		
Application	This unit of competency describes the skills and knowledge required to assess and fall basic trees manually using a chainsaw and to complete routine operator chainsaw maintenance.		
	 Basic trees typical to the scope of this unit have some of the following characteristics: lean and distribution of the crown weight does not create a complex situation to assess, place the cut or fall up to 15 metres in height 		
	up to 15 metres in height		
	 no excessive leanno visible damage or defect species that are not prone to free splitting and adverse reactions during felling 		
	 single stem or non-complex multi-stems 		
	 diameter of tree is less than chainsaw bar length 		
	 site characteristics that do not add significant complexity to the operation 		
	The unit applies to individuals who fell basic trees as part of arboriculture, forestry, agriculture, conservation and land management, local government, emergency services and other government agency operations. With the exception of minor forest produce, this unit does not apply to commercial harvesting operations.		
	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.		
	No licensing, legislative or certification requirements apply to this unit at the time of publication.		
Prerequisite Unit	FWPCOT2239 Trim and cut felled trees or equivalent		
Unit Sector	Common Technical (COT)		

Elements	Performance Criteria		
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.		
1. Prepare for felling	 1.1 Review work order or instruction to determine job requirements and, where required, seek clarification from appropriate personnel 1.2 Review workplace health and safety procedures, including the use of personal protective equipment, operation and maintenance of chainsaws, equipment lock-out and safe manual handling techniques 1.3 Identify, assess and take actions to mitigate risks and hazards associated with operation of chainsaws 1.4 Identify workplace environmental protection procedures for felling basic trees, minimising and disposing of waste material, cleaning tools and equipment, and minimising impact of tree felling on environmental assets 1.5 Consult and maintain communication with team members and other appropriate personnel to ensure that work is coordinated effectively with others in the workplace 1.6 Obtain tools and equipment needed for the work and check for correct operation and safety 1.7 Identify, assess and determine felling requirements of trees to be felled 		
	according to work order or instruction		
2. Visually assess site conditions and surroundings	 2.1 Inspect site for conditions likely to affect safe implementation of felling activities 2.2 Identify and report site environmental conditions to appropriate personnel 2.3 Determine fall zone and implement control measures to minimise risks and hazards in the zone according to safe work procedures 2.4 Monitor location and activity of other personnel on the worksite and implement control measures according to workplace safety procedures 		
3. Assess tree and plan felling	 3.1 Assess limitations of own skills in safely felling trees, identify trees considered outside own skill level and seek assistance from appropriate personnel where required 3.2 Confirm that tree is safe to fell 3.3 Visually assess tree for felling characteristics, defects and stresses 3.4 Assess and check required falling direction and possible deviation 3.5 Plan sequence of cuts to fell tree according to workplace felling procedures 3.6 Identify suitable escape routes and clear routes of growth and other obstacles according to environmental care, workplace and regulatory requirements 		
4. Apply tree felling techniques	 4.1 Fell individual trees using selected cutting techniques according to current Australian Standards and industry codes of practice 4.2 Adjust cutting technique in response to movement and condition of tree 4.3 Use planned escape route when tree starts to fall and monitor the fall of the tree until all movement has stopped 4.4 Delay movement back into the felling area until all tree material, including material from adjacent tree crowns, has fallen or is stable enough to allow safe access back into the felling area 4.5 Report trees that are hung-up to appropriate personnel according to workplace procedures 4.6 Dispose of waste materials according to environmental and workplace requirements 		
5. Maintain chainsaw and cutting attachments			

Foundation Skills		
	e language, literacy, numeracy and employment skills that are essential for ompetency but are not explicit in the performance criteria.	
Skill	Description	
Reading	Read workplace documentation and understand requirements	
Writing	Complete basic written records for tree felling process, equipment faults and maintenance requirements	
Oral communication	 Select and use appropriate spoken communication strategies with work colleagues and other personnel on site when felling trees Interpret hand signals with other operators to ensure safe tree felling 	
Numeracy	Complete routine calculations and report on size, length, diameter of felled trees	

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT2XXX Use chain saw to fall trees manually (basic)	FWPCOT2236 Fall trees manually (basic)		

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 FWPCOT2XXX Fall trees manually (basic)
Performance Evide	ence
An individual demonstra unit.	ating competency must satisfy all of the elements and performance criteria in this
 assessed, planned workplace policy an In completing this w consistent with curr operations. In falling accuracy: a scarf cut facir error of ± 2° an horizontal flat b a back cut para 	that the individual has: and conducted the felling of six basic trees following a work order or instruction and procedures and current workplace health and safety legislation and regulations. Work, the individual must demonstrate that, for each tree, the falling technique was ent Australian Standards and industry codes of practice applicable to tree felling g one of these six trees, the individual must demonstrate cuts with the following and the intended direction of fall, including a top cut angled at 45° with a margin of d a depth of 1/4 of the tree diameter with a margin of error of \pm 50 mm, and a ottom cut that meets precisely with the lowest part of the top cut llel to and 10% of the tree diameter remains uncut leaving straight hinge
	ed out routine maintenance on one chainsaw and its cutting attachments on one to manufacturer requirements.
Knowledge Evider	ICE
 elements and performa Australian Standard characteristics of ba workplace health ar personal protect safety equipme first aid equipm firefighting equi hazard and risk fatigue manage safety signage safe workplace fire prevention at techniques for r types and purposes to provide hinge-work 	nd safety requirements including: tive equipment (PPE) and clothing nt ent pment control procedures ment procedures practices, and safety manual handling, including shifting, lifting and carrying s of cuts to fell trees including scarf cutting and back cutting using different methods bod and wedges to maintain control of tree and how these affect tree felling activities:
 identifying trees: that contain haz considered outs trees where cut 	

excavations

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Knowledge Evidence

- traffic
- structures
- hazardous materials
- insects and animals
- people on or near worksite
- machinery on or near worksite
- methods used to remove trees that are hung up
- methods for assessing chain condition
- environmental protection measures suitable for a worksite where tree felling operations are performed:
 - noise control
 - protection of flora, fauna and habitat
 - protection of soil
 - protection of water
 - disposal, recycling and reuse of waste
 - cleaning of plant, equipment and tools
 - · protection of adjacent land uses and fixed assets
 - vehicle control
 - access restrictions
 - fire prevention
 - protection of cultural heritage
 - the types, safe use, operation and maintenance of chainsaws, including:
 - chainsaw
 - safety features of chainsaws including hand guard and chain brake
 - cutting attachments
 - maintenance requirements
 - support tools.

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 workplace location or an environment that accurately represents workplace conditions
- resources, equipment and materials:
- chainsaw and accessories
- suitable trees to fell
- PPE required in tree felling operations
- communication system
- specifications
 - access to work order or instruction detailing tree felling operations to be carried out by operator
 - access to workplace policies and procedures which cover current workplace health and safety
 regulations and related industry standards and codes of practice applicable to tree felling and
 chain saw operations
 - access to workplace policies and procedures which cover off on current Environment Protection Acts, regulations and related industry standards and codes of practice applicable to tree felling operations
 - access to workplace safety and environmental protection plans
 - access to site emergency procedure
 - access to workplace standard operating procedures or operator manual for chain saws.

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
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