



Australian Government

Department of Education, Employment and Workplace Relations

FPICOT2221A Trim and cross cut felled trees

Release: 1

FPICOT2221A Trim and cross cut felled trees

Modification History

Not applicable.

Unit Descriptor

This unit specifies the outcomes required to trim and cross cut felled trees with a chainsaw. This unit is intended for use in situations where the production of timber is not the primary focus of the activity. The unit includes equipment maintenance. Compliance with licensing, legislative, regulatory or certification requirements may be required in various jurisdictions. This unit replaces FPIFGM069A Trim and cross cut felled trees (non-commercial/non production)

This unit specifies the outcomes required to trim and cross cut felled trees with a chainsaw. This unit is intended for use in situations where the production of timber is not the primary focus of the activity. The unit includes equipment maintenance. Compliance with licensing, legislative, regulatory or certification requirements may be required in various jurisdictions. This unit replaces FPIFGM069A Trim and cross cut felled trees (non-commercial/non production)

Application of the Unit

This unit supports the attainment of skills and knowledge required for competent workplace performance in forest and forest products operations of all sizes. The unit applies to a forest environment and involves application of skills and knowledge at a production worker level. These skills and knowledge are to be used within the scope of the persons job and authority. This unit supports the attainment of skills and knowledge required for competent workplace performance in forest and forest products operations of all sizes. The unit applies to a forest environment and involves application of skills and knowledge at a production worker level. These skills and knowledge are to be used within the scope of the persons job and authority.

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Not applicable.

Employability Skills Information

Not applicable.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency

Performance Criteria describe the required performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the Required Skills and Knowledge and/or the Range Statement. Assessment of performance is to be consistent with the Evidence Guide

Elements describe the essential outcomes of a unit of competency

Performance Criteria describe the required performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the Required Skills and Knowledge and/or the Range Statement. Assessment of performance is to be consistent with the Evidence Guide

Elements and Performance Criteria

Elements and Performance Criteria

Element	Performance Criteria
1 Prepare for trimming and cross cutting	<p>1.1 Applicable Occupational Health and Safety (OHS), legislative and organisational requirements relevant to trimming and cross cutting felled trees are identified and complied with</p> <p>1.2 Site environmental protection measures are adhered to in accordance with relevant legislation and regulations</p> <p>1.3 Work order is reviewed and clarified with appropriate personnel</p> <p>1.4 Logs to be trimmed and cross cut are identified in accordance with work order</p> <p>1.5 Equipment is selected appropriate to work requirements and checked for operational effectiveness in accordance with manufacturer's recommendations</p> <p>1.6 Trimming and cross cutting activities are planned in accordance with site procedures</p> <p>1.7 Communication with others is established and maintained in accordance with OHS requirements</p>

- 2 Assess felled trees
 - 2.1 **Environmental conditions** are assessed and used to plan the cutting of each tree
 - 2.2 Movement and whereabouts of other personnel is monitored and work modified to be in accordance with OHS regulations
 - 2.3 Tree, location and stability are assessed for conditions likely to affect safety of cross cutting activities
 - 2.4 Tree is visually assessed for **defects** and removal status
 - 2.5 Trees unable to be cut safely are identified and referred to appropriate personnel
- 3 Plan cutting
 - 3.1 Tree is moved or stabilised for safe cutting in accordance with site standards and regulations
 - 3.2 **Cutting pattern** is selected to optimise time and manageable removal of the sections
 - 3.3 **Sequence of cross cuts** is planned to maintain control of cut sections and minimise cutting problems
 - 3.4 Debris is cleared from the work area to prevent saw damage or injury in accordance with OHS requirements
- 4 Trim and cross cut fallen trees
 - 4.1 **Pre start-up checks** are carried out on equipment in accordance with site requirements
 - 4.2 Tree section on each side of planned cut is secured and potential movement assessed and planned for
 - 4.3 Saw is operated to cut tree and cutting technique is adjusted in response to movement and condition of the tree in accordance with safety regulations
 - 4.4 Unexpected characteristics of a tree are assessed and planning reviewed
 - 4.5 Cross cut is completed once initiated in accordance with OHS and site requirements
 - 4.6 Trimming and cross cutting processes and equipment faults are **recorded and reported** to the

appropriate personnel

- 5 Conduct operator maintenance
 - 5.1 **Chain** is checked for blunt or damaged condition
 - 5.2 Chain and other components are removed, sharpened, maintained, adjusted and replaced in accordance with manufacturer's recommendations
 - 5.3 Chainsaw set-up is assessed and adjusted to suit cutting conditions
 - 5.4 Chainsaw is properly maintained and checked to comply with relevant standards prior to use

Required Skills and Knowledge

This describes the essential skills and knowledge and their level, required for this unit

Required skills include:

comply with legislation, regulations, standards, codes of practice and established safe practices and procedures for trimming and cross cutting felled trees

review and accurately identify work requirements

select, use and maintain relevant equipment

safely and effectively trim and cross cut felled trees

identify problems and equipment faults and demonstrate appropriate response procedures

use appropriate communication and interpersonal techniques with colleagues and others

accurately locate, record and report information

Required knowledge and understanding includes:

basic knowledge and understanding of applicable Commonwealth, State or Territory licensing, legislative, regulatory or certification requirements and codes of practice relevant to the full range of processes for trimming and cross cutting felled trees

organisational and site standards, requirements, policies and procedures for trimming and cross cutting felled trees

environmental protection requirements, including the safe disposal of waste material

principles of cultural diversity and access and equity

established communication channels and protocols

problem identification and resolution

characteristics of trees and types of timber defects that may affect cutting

cutting patterns and sequences

chainsaw operation, safety and maintenance

procedures
 industry standard lengths
 procedures for recording and reporting
 workplace information
 appropriate mathematical procedures for
 estimating and measuring, including
 calculating time to complete tasks

KEYCOMPETENCIES

The seven key competencies represent generic skills considered necessary for effective participation by an individual in the workplace Performance Level 1 - at this level, the candidate is required to undertake tasks effectively Performance Level 2 - at this level, the candidate is required to manage tasks Performance Level 3 - at this level, the candidate is required to use concepts for evaluating and reshaping task

Key Competency	Example of Application	Performance Level
How are ideas and information communicated?	By completing all required records and documentation	1
How can information be collected, analysed and organised?	By reviewing, confirming and clarifying work order requirements	1
How are activities planned and organised?	By planning and preparing for trimming and cross cutting activities	2
How is team work used?	By communicating with other personnel	1
How are mathematical ideas and techniques used?	By cutting material to industry standard lengths	1
How are problem solving skills applied?	By performing equipment pre start-up checks to ensure equipment is ready for operation	1
How is the use of technology applied?	By maintaining equipment	1

Evidence Guide

The Evidence Guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for this Training Packag

Overview of assessment

A person who demonstrates competency in this unit must be able to provide evidence that they can safely and efficiently trim and cross cut felled trees within organisational requirements

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Comply with applicable Commonwealth, State or Territory legislative and regulatory requirements and codes of practice, including OHS, environmental and organisational policies and procedures, relevant to trimming and cross cutting felled trees

Compliance with applicable licensing or certification requirements

Effectively communicate and work safely with others in the work area

Efficiently trim and cross cut felled trees in accordance with work order requirements

Effectively conduct operator maintenance on a chainsaw

Context of and specific resources for assessment

Competency is to be assessed in the workplace or realistically simulated workplace

Assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints

Assessment of essential underpinning knowledge, other than confirmatory questions, will usually be conducted in an off-site context

Assessment is to comply with relevant regulatory or Australian Standards requirements

The following resources should be made available:

workplace location or simulated workplace materials and equipment relevant to

trimming and cross cutting felled trees
specifications and work instructions

Method of assessment

Assessment must satisfy the endorsed
Assessment Guidelines of the FPI05
Training Package

Assessment methods must confirm
consistency and accuracy of performance
(over time and in a range of workplace
relevant contexts) together with application
of underpinning knowledge

Assessment must be by direct observation of
tasks, with questioning on underpinning
knowledge and it must also reinforce the
integration of key competencies

Assessment methods must confirm the
ability to access and correctly interpret and
apply the essential underpinning knowledge

Assessment may be applied under
project-related conditions (real or simulated)
and require evidence of process

Assessment must confirm a reasonable
inference that competency is able not only to
be satisfied under the particular
circumstance, but is able to be transferred to
other circumstances

Assessment may be in conjunction with
assessment of other units of competency

The assessment environment should not
disadvantage the candidate

Assessment practices should take into
account any relevant language or cultural
issues related to Aboriginality, gender or
language backgrounds other than English

Where the participant has a disability,
reasonable adjustment may be applied during
assessment

Language and literacy demands of the
assessment task should not be higher than
those of the work role

Range Statement

RANGE STATEMENT

The Range Statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording in the Performance Criteria is detailed below

OHS requirements are to be in accordance with Commonwealth, State or Territory legislation and regulations, and organisational safety policies and procedures. Requirements may include:

the use of personal protective equipment and clothing
 safety equipment
 first aid equipment
 fire fighting equipment
 hazard and risk control
 elimination of hazardous materials and substances
 safe forest practices
 awareness of danger zone for kickback
 manual handling including shifting, lifting and carrying
 erection of warning signs
 high visibility vest
 potential falling objects
 falling procedures for cross cutting on slopes

Legislative requirements are to be in accordance with applicable legislation from all levels of government that affect organisational operation. Requirements may include:

award and enterprise agreements
 industrial relations
 Australian Standards
 confidentiality and privacy
 OHS
 the environment
 equal opportunity
 anti-discrimination
 relevant industry codes of practice
 duty of care
 heritage and traditional land owner issues

Organisational requirements

may include legal, organisational and site guidelines, policies and procedures relating to own role and responsibility, quality

	assurance, procedural manuals, quality and continuous improvement processes and standards, OHS, emergency and evacuation, ethical standards, recording and reporting, access and equity principles and practices, equipment use, maintenance and storage, environmental management (waste disposal, recycling and re-use guidelines)
Cross cutting	is to be completed standing on the uphill side is to include the process of cutting directly across the diameter of a log - horizontal or at an angle
Environmental protection measures	may include noise, ground growth, canopy, general forest lean, wind speed and direction, fallen trees, density of trees, ground slope, soil and water protection, ground hazards and obstacles. Measures may also include contingencies for modifying operations during wet or other adverse weather conditions
Work order	is to include instructions for the trimming, cross cutting and despatch of felled trees from the work site and may include type, size, length, quantity, grade, track clearance, hazardous trees
Appropriate personnel	may include supervisors, suppliers, clients, colleagues and managers
Logs	are to include the finished product or trunk of a tree after trimming and cross cutting has occurred
Trimming	is to include trimming off branches, burls and other small growths
Equipment	may include chainsaws, specific safety attire and maintenance tools and equipment is to include procedures for chainsaw lock-out, ie protecting operators and co-workers from accidental injury by isolating the machine
Communication	may include verbal and non-verbal language, constructive feedback, active listening,

	questioning to clarify and confirm understanding, use of positive, confident and cooperative language, use of language and concepts appropriate to individual social and cultural differences, control of tone of voice and body language
Environmental conditions	may include ground growth, ground slope, ground hazards and obstacles
Defects	may include splits, falling damage, fire damage, infestation, pipe, shake, twist, and branch/knot locations
Cutting pattern	is to include the best direction or angle for making a cut
Sequence of cross cuts	is to include the plan of cuts to optimise time and recovery of logs
Pre start-up checks	are conducted to ensure equipment has been set up correctly, the systems are performing accurately and operating to optimum performance
Records and reports	may include details of tree type, size, length, diameter, inspection, grading and labelling outcomes, storage locations, quality outcomes, hazards, incidents or equipment malfunctions may be manual, using a computer-based system or another appropriate organisational communication system
Chain	is to include the fast moving component surrounding the chainsaw blade containing many linked teeth

Unit Sector(s)

Not applicable.

Competency Field

Common Technical

Common Technical