



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **FPIHAR2206A Operate a mobile chipper/mulcher**

**Release: 1**

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### **Modification History**

Not applicable.

### **Unit Descriptor**

This unit specifies the outcomes required to operate a mobile chipping/mulching unit to clean up after felling operations and chip excess branches and timber refuse

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### **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

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### **Licensing/Regulatory Information**

Not applicable.

### **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

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## Elements and Performance Criteria

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Element	Performance Criteria
1 Prepare for mobile chipping/mulching	<p>1.1 Applicable <b>Occupational Health and Safety (OHS), legislative and organisational</b> requirements relevant to conducting mobile chipping operations are identified and complied with</p> <p>1.2 <b>Work order</b> is reviewed and checked with <b>appropriate personnel</b></p> <p>1.3 Type and quantity of <b>timber refuse</b> to be <b>chipped/mulched</b> is identified and assessed for safe working conditions</p> <p>1.4 <b>Equipment</b> is selected appropriate to work requirements and checked for operational effectiveness in accordance with manufacturer's recommendations</p> <p>1.5 Chipping/mulching activities are planned in accordance with site procedures</p> <p>1.6 <b>Communication</b> with others is established and maintained in accordance with OHS requirements</p>
2 Chip/mulch timber	<p>2.1 <b>Chipping/mulching unit</b> is positioned, secured and set up in accordance with manufacturer's specifications</p> <p>2.2 <b>Pre start-up checks</b> are carried out on equipment</p>

- in accordance with site requirements
- 2.3 Timber refuse is fed into the chipper/mulcher at a rate applicable to the **capacity** of the machinery in accordance with applicable safe handling techniques
  - 2.4 Timber refuse is chipped to the **chip sizes** set on the chipping unit and in accordance with the work order
  - 2.5 Chipping/mulching processes and equipment faults are **recorded and reported** to the appropriate personnel
- 3 Conduct operator maintenance
- 3.1 Equipment lock-out procedures are followed in accordance with OHS legislation and site procedures
  - 3.2 Chipper/mulcher is checked for blunt or damaged condition
  - 3.3 Components are removed, maintained, adjusted and replaced in accordance with manufacturer's recommendations
  - 3.4 Chipper/mulcher set-up is assessed and adjusted to suit chipping conditions
  - 3.5 Chipper/mulcher is kept clear of **foreign matter** 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 mobile chipping/mulching

review and accurately identify work requirements

use and maintain relevant tools, machinery and equipment

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

efficiently and safely operate a mobile chipper/mulcher

effectively assess condition of chipper/mulcher

### Required knowledge and understanding includes:

basic knowledge and understanding of applicable Commonwealth, State or Territory legislation, regulations, standards and codes of practice relevant to the full range of processes for mobile chipping/mulching

organisational and site standards, requirements, policies and procedures for mobile chipping/mulching

principles of cultural diversity and access and equity

environmental protection requirements, including the safe disposal of waste material

established communication channels and protocols

problem identification and resolution

types of tools and equipment and procedures for their safe use, operation and maintenance

characteristics of trees and timber defects

chipping/mulching procedures  
 mobile chipper/mulcher operation and safety  
 chipper/mulcher condition assessment  
 procedures for recording, reporting and  
 maintaining workplace records and  
 information  
 appropriate mathematical procedures for  
 estimating and measuring, including  
 calculating time to complete tasks

## KEY COMPETENCIES

**These 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 tasks**

Key Competency	Example of Application	Performance Level
How are ideas and information communicated?	By communicating in simple language to confirm work requirements, convey information and requests to colleagues, and report and record outcomes for mobile chipping/mulching	1
How can information be collected, analysed and organised?	By collecting, organising and understanding information required to undertake mobile chipping/mulching	1
How are activities planned and organised?	By organising and conducting work activities in the correct sequence for mobile chipping/mulching to be completed within the designated timeframes	2
How is team work used?	By using effective communication and interpersonal techniques with colleagues and others to maximise confidence, satisfaction and productivity	1

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	during the process of mobile chipping/mulching	
How are mathematical ideas and techniques used?	By calculating time to complete tasks and estimating tools, equipment and material requirements including quantities and feed rates	1
How are problem solving skills applied?	By establishing safe and effective processes for mobile chipping/mulching which anticipate likely problems to avoid wastage and downtime	2
How is the use of technology applied?	By selecting and using mobile chipping/mulching equipment to chip or mulch timber refuse	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 operate a mobile chipper/mulcher 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 operating a mobile chipper/mulcher

Communicate effectively and work safely with others in the work area

Efficiently operate a mobile chipper/mulcher in accordance with the work order and within prescribed organisational tolerances

Effectively conduct operator maintenance on a mobile chipping unit

### 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 mobile chipping



**Method of assessment**

specifications and work instructions

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 including required actions relating to forest fire  
 manual handling including shifting, lifting and carrying

**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)
<b>Work order</b>	is to include instructions for the chipping/mulching and despatch of chipped/mulched timber refuse from the work site and may include type, size, length, quantity and grade
<b>Appropriate personnel</b>	may include supervisors, suppliers, clients, colleagues and managers
<b>Timber refuse</b>	may include branches, tree heads, bark and other timber waste
<b>Chipping/mulching</b>	is to include the process of converting timber refuse into varying chip sizes using mechanised chipping/mulching units
<b>Equipment</b>	may include mobile chipping/mulching units, specific safety attire and maintenance tools and equipment is to include procedures for equipment lock-out, ie protecting operators and co-workers from accidental injury by isolating the machine
<b>Communication</b>	may include verbal and non-verbal language, hand or other agreed signals, eye contact with other operators or personnel, active listening, questioning to clarify and confirm understanding, use of electronic communication devices
<b>Chipping/mulching unit</b>	may include a truck mounted chipping/mulching unit or trailer mounted chipping/mulching unit feeding into a truck or other form of transportation. Chipping/mulching units are usually petrol driven and contain high powered spinning cutters which shred timber refuse into chips/mulch
<b>Pre start-up checks</b>	are conducted to ensure equipment has been set-up correctly, the systems are performing accurately and operating to optimum performance

<b>Capacity</b>	may include the capacity of the machinery to cope with certain size diameters of branch or the speed by which waste is fed into the chipper/mulcher
<b>Chip sizes</b>	may vary in size, dependent on the customer or work order and the capability of the chipper/mulcher to set chip sizes
<b>Records and reports</b>	may include timber type, size, outcomes, storage locations, quality outcomes, hazards, incidents or equipment malfunctions may be manual, using a computer-based system or another appropriate organisational communication system
<b>Foreign matter</b>	may include contamination of chip, stones, rocks, metal and other foreign matter which may blunt the cutters or affect operation of the chipper/mulcher

## **Unit Sector(s)**

Not applicable.

## **Competency Field**

Harvesting and Haulage  
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