



Australian Government

Department of Education, Employment and Workplace Relations

FPICOT2225B Chip or flake wood

Release: 1

FPICOT2225B Chip or flake wood

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit describes the outcomes required to operate specialist equipment to produce chips or flake from wood in readiness for production, while monitoring and maintaining the flow of operation. The unit includes operator maintenance

General workplace legislative and regulatory requirements apply to this unit; however there are no specific licensing or certification requirements at the time of publication

This unit replaces FPICOT2225A Chip or flake wood

Application of the Unit

Application of the unit

The unit involves chipping or flaking wood in a forest products factory setting

The skills and knowledge required for competent workplace performance are to be used within the scope of the person's job and authority

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Not Applicable

Employability Skills Information

Employability skills This unit contains employability skills

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for chip or flake production	1.1. Applicable occupational health and safety (OHS), environmental, legislative and organisational requirements relevant to chipping or flaking wood are identified and followed 1.2. Work order is reviewed and clarified with appropriate personnel 1.3. Type and quantity of wood to be chipped or flaked is assessed and acquired from the stockpile 1.4. Equipment is selected appropriate to work requirements and checked for operational effectiveness in line with manufacturer recommendations 1.5. Chipping or flaking process is planned in line with site procedures and environmental requirements 1.6. Communication with others is established and maintained in line with OHS requirements
2. Produce chips and flakes	2.1. Pre-startup checks are carried out on equipment in line with site requirements 2.2. Machines and feed systems are started and adjusted to produce chip or flake size in line with organisational requirements 2.3. Chip or flake production is regularly checked to ensure it meets wood chip or flake quality specifications and organisational requirements 2.4. Conveyor operations are monitored and jams cleared to ensure free flow of waste output material, which is kept to a minimum 2.5. Output of chips or flakes is directed to storage bins in line with prescribed fill levels 2.6. Faults requiring emergency shutdown are detected and action is taken to rectify the problem 2.7. Processing and equipment faults are recorded and reported to the appropriate personnel
3. Conduct operator maintenance	3.1. Equipment lock-out procedures are followed in line with OHS legislation and site procedures 3.2. Blades or knives are checked for faulty, blunt or damaged condition 3.3. Blades or knives are removed and replaced in line with manufacturer recommendations 3.4. Machine and surrounding area are kept clear of dust and debris in line with OHS and environmental

ELEMENT**PERFORMANCE CRITERIA**

requirements

Required Skills and Knowledge**REQUIRED SKILLS AND KNOWLEDGE**

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

Required skills

- Technical skills sufficient to use and maintain relevant tools, machinery and equipment; efficiently and safely produce chips or flakes
- Communication skills sufficient to use appropriate communication and interpersonal techniques with colleagues and others; locate, record and report information
- Literacy skills sufficient to follow legislation, regulations, standards, codes of practice and established safe practices and procedures for producing chips or flakes
- Numeracy skills sufficient to measure, estimate and calculate time required to complete a task
- Problem solving skills sufficient to review and identify work requirements; identify problems and equipment faults; demonstrate appropriate response procedures

Required knowledge

- Applicable commonwealth, state or territory legislation, regulations, standards, codes of practice and established safe practices relevant to the full range of processes for chipping or flaking wood
- Environmental protection requirements, including the safe disposal of waste material, and the cleaning of plant, tools and equipment
- Organisational and site standards, requirements, policies and procedures for chipping or flaking wood
- Environmental risks and hazards
- Using energy effectively and efficiently
- Characteristics of wood chips and stock levels
- Chip and flake production process
- Storage systems and labelling procedures
- Established communication channels and protocols
- Problem identification and resolution strategies, and common fault finding techniques
- Types of tools and equipment, and procedures for their use, operation and maintenance
- Appropriate mathematical procedures for estimating and measuring, including calculating time to complete tasks

REQUIRED SKILLS AND KNOWLEDGE

- Procedures for recording and reporting workplace information

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

A person who demonstrates competency in this unit must be able to provide evidence that they can safely and efficiently produce chips or flakes in line with organisational requirements

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

The evidence required to demonstrate competency in this unit must be relevant to, and satisfy, all of the requirements of the elements of this unit and include demonstration of:

- following applicable commonwealth, state or territory legislative and regulatory requirements and codes of practice relevant to chipping or flaking wood
- following organisational policies and procedures relevant to chipping or flaking wood
- producing chips or flakes in line with the work order and prescribed organisational requirements
- conducting operator maintenance on chipping and flaking equipment
- storing produced chips or flakes in line with organisational requirements and OHS regulations
- 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 required knowledge, other than confirmatory questions, will usually be conducted in an off-site context
- Assessment is to follow relevant regulatory or Australian Standards requirements
- The following resources should be made available:
 - workplace location or simulated workplace
 - materials and equipment relevant to undertaking work applicable to this unit
 - specifications and work instructions

Context of and specific resources for assessment

Method of assessment

- Assessment must satisfy the endorsed Assessment Guidelines of the FPI11 Training Package

EVIDENCE GUIDE

- Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with application of required knowledge
- Assessment must be by direct observation of tasks, with questioning on required knowledge and it must also reinforce the integration of employability skills
- Assessment methods must confirm the ability to access and correctly interpret and apply the required 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, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

OHS requirements: are to be in line with applicable commonwealth,

RANGE STATEMENT

state or territory legislation and regulations, and organisational safety policies and procedures, and may include:

- personal protective equipment and clothing
- safety equipment
- first aid equipment
- fire fighting equipment
- hazard and risk control
- fatigue management
- elimination of hazardous materials and substances
- safe forest practices, including required actions relating to forest fire
- manual handling including shifting, lifting and carrying
- legislation
- organisational policies and procedures
- workplace practices

Environmental requirements may include:

Legislative requirements:

are to be in line with applicable commonwealth, state or territory legislation, regulations, certification requirements and codes of practice and 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

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 procedures

RANGE STATEMENT

- ethical standards
- recording and reporting requirements
- equipment use, maintenance and storage requirements
- environmental management requirements (waste minimisation and disposal, recycling and re-use guidelines)

Chips or flakes

are the output product as a result of converting wood into chip or flake material, which is then used to produce other products

Work order is to include:

- instructions for the assessment of chips and the chip or flake grade

and may include:

- feed rate
- quantity
- instructions for the environmental monitoring of work and procedures
- environmental care requirements relevant to the work

Appropriate personnel may include:

- supervisors
- suppliers
- clients
- colleagues
- managers

Assessing wood is to include:

- species
- size
- moisture content
- contamination issues associated with selected wood, such as:
 - logs
 - billets
 - off-cuts
 - waste timber
 - down grade timber
 - residue
 - chips
 - reject boards

Stockpile

is the pile of available wood products ready for conversion to chips or flakes, classified in size

RANGE STATEMENT

	and species
Equipment is to include:	• procedures for equipment lock-out, such as protecting operators and co-workers from accidental injury by isolating the machine from the power source
	and may include:
	• chippers • hoggers • shredders and knife mills • mechanised feed systems
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
Pre-startup checks	are conducted to ensure:
	• machine has been set up correctly • systems are performing accurately • machine is operating to optimum performance
Feed systems may include:	• conveyors • chutes or track systems moving wood to the chipper • moving processed wood chips or flakes from the chipping machines
Conveyor operations may include:	• moving wood products to the chipping/flaking machinery • extracting chips or flakes and moving to collection bins
Emergency shutdown	is the immediate shutting off of equipment to prevent an accident or damage to the machine or product
Records and reports may include:	• product type • size • inspection information

RANGE STATEMENT

- grading and labelling outcomes
- storage locations
- quality outcomes
- hazards
- incidents
- equipment malfunctions

and may be:

- manual
- computer-based system
- other appropriate organisational communication system

Unit Sector(s)

Not Applicable

Competency field

Competency field Common Technical