



Australian Government

FWPCOT2225 Chip or flake wood

Release: 1

FWPCOT2225 Chip or flake wood

Modification History

Release	Comment
1	Replaces equivalent unit FPICOT2225B Chip or flake wood, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.

Application

This unit of competency 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 applies to those who chip or flake wood in forest products factory setting and includes operator maintenance

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

Pre-requisite Unit

Nil

Unit Sector

Sawmilling and Processing

Timber Manufactured Products

Wood Panel Products

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. Where bold italicised text is used, further information is detailed in the range of conditions.</i>
1. Prepare for chip or flake production	1.1 Review work order and where required check with appropriate personnel. 1.2 Identify type and quantity of wood to be chipped or flaked, assess

	condition and select from stockpile. 1.3 Select appropriate equipment and check for operational effectiveness in line with manufacturer's recommendations. 1.4 Plan chipping or flaking process in line with work order.
2. Produce chips and flakes	2.1 Use equipment in line with organisational safety procedures, manufacturer's instructions environmental protection practices. 2.2 Start machines and feed systems and adjust to produce chip or flake size in line with work order. 2.3 Check chip or flake production regularly to ensure wood chips or flakes meet quality specifications. 2.4 Monitor conveyor operations and clear jams to ensure free flow and minimisation of waste material. 2.5 Direct output of chips or flakes to storage bins in line with prescribed fill levels. 2.6 Identify routine processing and equipment faults and resolve or report to appropriate personnel. 2.7 Respond to critical situations requiring emergency shutdown to prevent personal injury or damage to machine or product. 2.8 Complete production and quality records and report in line with organisational procedures.
3. Complete operator maintenance	3.1 Follow organisational safety procedures to lock out equipment. 3.2 Check blades and knives for faults, bluntness and damage. 3.3 Remove and replace blades and knives in line with manufacturer's recommendations. 3.4 Dispose of used blades and knives in line with organisational procedures and environmental protection practices. 3.5 Clear dust and debris from machine area. 3.6 Record and report equipment faults and maintenance requirements to appropriate personnel.

Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.

Numeracy skills to:	- identify quantities of required material within work orders and count raw materials - read basic numerical machine settings and choose according to
---------------------	--

	chip or flake size complete routine production records involving quantities tallied against orders.
Oral communication skills to:	- ask questions and actively listen to clarify contents of work orders - make accurate verbal reports on processing and equipment faults.
Reading skills to:	- interpret: - workplace health and safety and other organisational procedures - work orders - manufacturers' instructions and maintenance recommendations.
Writing skills to:	complete accurate basic records for production outcomes, equipment faults and maintenance requirements.
Planning and organising skills to:	sequence the stages of preparation and production using work order to guide activities.
Problem-solving skills to:	- identify situations requiring emergency shutdown and respond immediately - recognise faulty equipment and resolve by reporting or rectifying.
Technology skills to:	select, use and maintain appropriate machinery, tools and personal protective equipment used for chip and flake production.

Range of Conditions

Not Applicable

Unit Mapping Information

FPICOT2225B Chip or flake wood

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 FWPCOT2225 Chip or flake wood

Modification History

Release	Comment
1	Replaces equivalent unit FPICOT2225B Chip or flake wood, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format. Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including 'Required Skills and Knowledge, Evidence Guide and Range Statement

Performance Evidence

- A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit. If a specific volume or frequency is not stated below, then evidence must be provided that the following requirements have been performed on at least one occasion:
- produce chips and flakes of varying sizes and grades in line with individual work orders
- complete assessments of the source wood for:
 - species
 - size
 - moisture content
 - contamination issues.

Knowledge Evidence

A person competent in this unit must be able to demonstrate knowledge of:

- environmental protection practices for forest products factory settings:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing timber
- characteristics of wood for assessment and how these affect finished wood chips and flakes:
 - species
 - size
 - moisture content

- typical contamination issues associated with wood, and how these affect ability to produce quality chips and flakes:
 - logs
 - billets
 - off-cuts
 - waste timber
 - down grade timber
 - residue
 - chips
 - reject boards
- stages of the chip and flake production process
- industry and organisational specific quality specifications for wood chips and flakes
- types of tools and equipment used to chip and flake wood; their purpose, features, operation and basic non-specialist repair and maintenance:
 - chippers
 - hoggers
 - shredders and knife mills
 - mechanised feed systems
 - conveyors
 - chutes or track systems
- methods for assessing blade and knife condition
- organisational procedures specific to chipping and flaking wood:
 - workplace health and safety with particular emphasis on equipment lock out
 - use and maintenance of equipment
 - communication reporting lines
 - recording and reporting production outcomes and equipment faults.
 -

Assessment Conditions

The following resources must be made available:

- tools and equipment used to chip and flake wood:
 - chippers
 - hoggers
 - shredders and knife mills
 - mechanised feed systems
 - conveyors
 - chutes or track systems
- maintenance tools and equipment for removing and replacing blades and knives
- consumable components; blades and knives
- personal protective equipment suitable for chipping and flaking wood

- wood materials for processing
- manufacturers':
 - instructions for equipment use
 - recommendations for cleaning, repairing and maintaining
- work order with specific instructions for assessing wood and chip and flake requirements
- template documents for recording production outcomes and equipment faults
- organisational procedures for chipping and flaking wood
- relevant personnel for the purposes of communicating information.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessor requirements

Assessors must:

- hold the appropriate assessor competency standards as outlined in regulations; and
- be able to demonstrate vocational competencies at least to the level being assessed; and
- be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>