



Australian Government

FWPSAW4204 Plan and monitor board conversion

Release: 1

FWPSAW4204 Plan and monitor board conversion

Modification History

Release	Comment
1	Replaces equivalent unit FPISAW4204B Plan and monitor board conversion, 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 plan the production of boards and cutting patterns and schedules, coordinate sawing processes and monitor equipment and output. Work is completed in a forest and wood products factory setting.

The unit applies to Timber Manufacturing Supervisor, Production Supervisor.

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

Elements and 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. Plan conversion operations	1.1 Assess flitches and cants for types of boards that can be cut and determine optimal cutting pattern. 1.2 Plan and document cutting patterns to maximise output and minimise wastage. 1.3 Develop timber cutting schedules and work orders and brief sawyers in line with organisational procedures. 1.4 Identify variations in timber characteristics and report to sawyers.

2. Monitor board conversion operations	2.1 Assist sawyers to evaluate flitches or cants and sawing problems. 2.2 Monitor board cutting processes; assess for quality of cutting pattern, suitability to flitch or cant condition and ability to maintain schedule. 2.3 Modify cutting patterns and schedule to ensure optimum performance and communicate to sawyers. 2.4 Assist sawyers to reject sub-standard flitches and cants and ensure they are disposed of in line with environmental protections practices. 2.5 Ensure processed boards are directed to designated area for storage or further processing. 2.6 Complete and maintain records of cutting output in line with organisational procedures. 2.7 Investigate, record and report major processing and equipment faults and resolve or report to appropriate personnel.
3. Coordinate board conversion	3.1 Monitor and evaluate board conversion operations and output to determine process improvements. 3.2 Document process improvements and communicate to appropriate personnel in line with organisational procedures.

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:	- complete routine calculations to measure flitches and cants - complete complex calculations to determine: - potential volume return from flitches and cants - cutting schedules considering human and equipment resource capacity.
Oral communication skills to:	provide clear and unambiguous information to sawyers about initial and changing cutting patterns and schedules.
Reading skills to:	interpret basic operational cutting and processing logs completed by sawyers.
Writing skills to:	- develop comprehensive documents in a style and format easily understood by others: - cutting patterns and schedules - work orders - reports on process improvements

	complete accurate basic records of cutting output and equipment faults.
Planning and organising skills to:	- source, collect and organise data to inform cutting schedules and process improvement reports - efficiently and logically manage operational logistics for board conversion sawing activities.
Problem-solving skills to:	- assess timber cutting processes during operation and take quick action to modify cutting patterns and schedules to resolve output problems - investigate major equipment faults, consider systematic issues and resolve - analyse production problems, consider various solutions and determine process improvements.
Teamwork skills to:	take responsibility for coordinating a team of sawyers for effective board conversion operations.
Technology skills to:	- assess flitches and cants, determine cutting patterns and schedules to maximise production outcomes and monitor effective board conversion operations - use a computer, keyboard and software to prepare cutting schedules, work orders and reports.

Range of Conditions

Not Applicable

Unit Mapping Information

FPISAW4204B Plan and monitor board conversion

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 FWPSAW4204 Plan and monitor board conversion

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1	Replaces equivalent unit FPISAW4204B Plan and monitor board conversion, 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:

- follow organisational policies and procedures relevant to planning and monitoring board conversion
- plan and monitor board conversion for the enterprise
- modify cutting patterns and schedules for board conversion
- coordinate personnel to follow planning, communications and scheduling or board conversion.
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Knowledge Evidence

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

- purpose, features and operation of equipment used for assessing flitches and cants
- capacity of sawing equipment and systems
- methods used to assess flitches and cants for size, volume and type of boards that can be cut
- methods used to assess boards for sawn finish and dimensional consistency
- stages of the board conversion process
- environmental protection practices for disposing of, recycling and reusing timber
- typical flow of flitch and cant supply in and out of the sawing area
- cutting patterns used on flitches and cants to achieve maximum output of boards

- methods of determining cutting schedules to maximise efficient handling of flitches and cants to be sawn
- methods used to assess timber cutting processes for quality of outcomes and scheduling
- format, content and use of:
 - cutting pattern documents
 - cutting schedules
 - work orders
 - cutting records
 - process improvement reports
- organisational procedures specific to planning and monitoring board conversion operations:
 - communication reporting lines for sawyer team members and self
 - documenting cutting patterns, schedules, work orders and reports
 - recording and reporting systematic equipment faults.

Assessment Conditions

The following resources must be made available:

- flitch and cant measuring equipment
- computers, keyboards, printers and software used to prepare planning and production documents
- personal protective equipment suitable for assessing flitches and cants
- a diverse, comprehensive and commercial range of flitches and cants
- template:
 - cutting pattern documents
 - cutting schedules
 - work orders
 - cutting records
 - process improvement reports
 - record for equipment faults
- organisational procedures for planning and monitoring board conversion operations
- a team of sawyers with whom the individual can interact.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting. Sawing operations must be present in order that the individual can monitor, assess and modify cutting patterns and schedules in response to changing circumstances.

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.

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