

Modification history

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version [4.0] Version created to update workplace health and safety requirements in performance criteria and clarify intent of unit and assessment requirements.
Release 1	This version 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.

UNIT CODE	FWPSAW4204 Plan and monitor board conversion
Application	<p>This unit of competency describes the skills and knowledge required to plan the production <u>of timber from flitches and cants in a timber processing facility. Work boards and involves -responsibilities in planning</u> cutting patterns and schedules, coordinate <u>coordinating</u> sawing processes and monitoring equipment and output <u>for improvement. Work is completed in a forest and wood products factory setting.</u></p> <p>The unit applies to individuals who work as supervisors and production supervisors in timber manufacturing processing facilities. They generally <u>demonstrate autonomy, judgement and limited responsibility in known or changing contexts and within established parameters.</u></p> <p><u>All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.</u></p> <p>No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Sawmilling and Processing

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan conversion timber production operations from <u>flitches and cants</u>	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 <u>1.5 Review and communicate workplace health and safety requirements, environmental protection practices and emergency procedures and use personal protective equipment (PPE) in line with operational requirements</u> <u>1.6 Identify and control hazards, accidents, incidents and/or near misses in line with operational requirements and health and safety legislative requirements to maintain safe work practices</u>

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
<p>2. Monitor board conversion<u>Coordinate sawing</u> operations for timber production</p>	<p>2.1 Assist sawyers to evaluate flitches or cants and sawing problems 2.2 Monitor and board cutting processes; assess <u>timber cutting processes</u> for quality of cutting pattern, suitability to flitch or cant condition and ability to maintain schedule 2.3 Modify cutting patterns and schedule <u>when required</u> 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 protection 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</p>
<p>3. <u>Evaluate and determine process improvement</u>Coordinate board conversion</p>	<p>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</p>

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Foundation Skills	
<i>This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.</i>	
Skill	Description
Numeracy	<ul style="list-style-type: none"> complete routine calculations to measure flitches and cants complete complex calculations to determine: <ul style="list-style-type: none"> potential volume return from flitches and cants cutting schedules considering human and equipment resource capacity
Oral communication	<ul style="list-style-type: none"> provide clear and unambiguous information to sawyers about initial and changing cutting patterns and schedules
Reading	<ul style="list-style-type: none"> interpret basic operational cutting and processing logs completed by sawyers
Writing	<ul style="list-style-type: none"> develop comprehensive documents in a style and format easily understood by others: <ul style="list-style-type: none"> cutting patterns and schedules work orders reports on process improvements complete accurate basic records of cutting output and equipment faults
Plan and organise	<ul style="list-style-type: none"> source, collect and organise data to inform cutting schedules and process improvement reports efficiently and logically manage operational logistics for timber sawing activities
Problem-solving	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> take responsibility for coordinating a team of sawyers for effective timber production operations
Technology	<ul style="list-style-type: none"> assess flitches and cants, determine cutting patterns and schedules to maximise production outcomes and monitor effective operations use a computer, keyboard and software to prepare cutting schedules, work orders and reports

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
FWPSAW4204 Plan and monitor board conversion	FWPSAW4204 Plan and monitor board conversion	Updated workplace health and safety requirements in performance criteria and clarified intent of unit and assessment requirements	Equivalent unit

Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47
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TITLE	Assessment requirements for FWPSAW4204 Plan and monitor board conversion
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Performance Evidence

An individual demonstrating competency must satisfy all of the elements, performance criteria and foundation skills of this unit. There must be evidence that, on at least one occasion, the individual has:

- followed organisational workplace health and safety requirements and environmental procedures policies and procedures relevant to planning and monitoring timber production from flitches or cants~~board conversion~~
- planned and monitored timber production from flitches or cants~~board conversion for the enterprise~~
- modified cutting patterns and schedules for sawing operations~~board conversion~~
- coordinated personnel to follow planning, communications and scheduling of sawing operations for timber production~~or board conversion.~~

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- health and operational hazards or risks related to sawing operations for timber production as identified through risk assessments, manufacturer technical information, regulations and industry health and safety guides
- organisational procedures specific to planning and monitoring board conversions~~sawing operations for timber production~~:
 - communication reporting lines for sawyer team members and self
 - documenting cutting patterns, schedules, work orders and reports
 - recording and reporting systematic equipment faults
- environmental protection practices for disposing of, recycling and reusing timber
- 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 timber boards that can be cut
- methods used to assess timber boards for sawn finish and dimensional consistency
- stages of the board conversions~~sawing~~ process for timber production
- 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 timber 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.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - 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
- specifications:
 - cutting pattern documents
 - cutting schedules
 - work orders
 - cutting records

Assessment Conditions	
<ul style="list-style-type: none">• process improvement reports• record for equipment faults• workplace health and safety and emergency procedures• environmental protection procedures• organisational procedures for planning and monitoring timber production from fitches or cantsboard conversion operations• relationships:<ul style="list-style-type: none">• a team of sawyers with whom the individual can interact. <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47

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