



Australian Government

FWPSAW3209 Align sawing production systems

Release: 1

FWPSAW3209 Align sawing production systems

Modification History

Release	Comment
1	Replaces equivalent unit FPISAW3209B Align sawing production systems, 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 align canter rings and chipper heads for wood chipping equipment, which are used for both primary and secondary processing of solid wood products. Work is completed in a forest products factory setting.

The unit applies to Sawdoctor, Saw Repairer, Sawyer.

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. Prepare for aligning	1.1 Review work order and where required check with appropriate personnel. 1.2 Select appropriate repair, maintenance and personal protective equipment and check for operational effectiveness in line with manufacturer's recommendations. 1.3 Plan alignment process in line with work order.
2. Conduct shut	2.1 Follow organisational safety procedures throughout all maintenance

down	and repair processes. 2.2 Remove, replace and temporarily store mechanical and safety components to provide access to alignment parts. 2.3 Remove, replace and temporarily locate guides. 2.4 Keep work area clear of dust, off-cuts and debris in line with organisational safety procedures.
3. Align rings and heads	3.1 Access and interpret equipment history records, and manufacturer's recommendations. 3.2 Remove canter rings and chipper heads to be aligned. 3.3 Assess performance of canter rings and chipper heads and re-align, according to manufacturer's instructions. 3.4 Check saw for alignment and free operation. 3.5 Identify routine processing and equipment faults and resolve or report 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:	complete precise calculations to align various parts of sawing systems according to specified settings.
Oral communication skills to:	ask open and close probe questions and actively listen to clarify contents of works orders.
Reading skills to:	- interpret detailed and familiar documents: - workplace health and safety and organisational procedures - work orders - manufacturers' instructions and maintenance recommendations.
Writing skills to:	complete basic accurate records for processing and equipment faults.
Planning and organising skills to:	efficiently and logically sequence the stages of preparation and repair work using work order to guide activities.
Problem-solving skills to:	- assess performance of canter rings and chipper heads and complete necessary re-alignment - recognise faulty equipment and resolve by reporting or rectifying.

Technology skills to:	• select and use appropriate repair, maintenance and personal protective equipment for aligning canter rings and chipper heads • efficiently and safely align canter rings and chipper heads.
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Range of Conditions

Not Applicable

Unit Mapping Information

FPISAW3209B Align sawing production systems

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 FWPSAW3209 Align sawing production systems

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1	Replaces equivalent unit FPISAW3209B Align sawing production systems, 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 aligning sawing production processes
- align these components of sawing production systems in line with an individual work order for each job:
 - sawing machines
 - chipper heads
 - canter rings
 - feed systems including line bars and carriages
- remove and replace canter rings and chipper heads from equipment
- use an individual log of previous alignment measurements, settings, adjustments and timelines
- assess sawing machine and system performance against recovery percentages, product sizing and/or standard deviation and align components for improvement.

Knowledge Evidence

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

- purpose, features and operation of:
 - sawing machines
 - chipper heads

- canters rings
- feed systems including line bars and carriages
- purpose, features and operation of tools and equipment used to align sawing production systems
- importance of aligning various parts of sawing systems:
 - reducing sawing deviation, vibration, and downtime
 - increasing production rates
 - improving quality of sawn finish
- methods for:
 - assessing sawing machine and system performance against recovery percentages, product sizing and/or standard deviation
 - dismantling mechanical components of sawing machines
 - assessing performance of canter rings and chipper heads
 - aligning machine components to specified requirements
 - re-assembling sawing machines and testing operational effectiveness
- organisational policies and procedures specific to aligning sawing production systems:
 - workplace health and safety with particular emphasis on equipment lock out and use of personal protective equipment
 - communication reporting lines
 - recording and reporting processing and equipment faults
- environmental protection practices for repairing and maintaining tools and equipment in forest products factory settings:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing materials
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Assessment Conditions

The following resources must be made available:

- tools and equipment used to align sawing production systems:
 - tools for removing and adjusting mechanical parts
 - jigs
 - precision measuring equipment
 - laser equipment
 - surveying instruments
 - portable electrical lighting
 - feeler gauges
 - engineers rules
 - vernier callipers
 - micrometers

- plumb lines
- piano wire or string lines
- pointer
- markers
- portable computers that re-calibrate machine settings
- wood chipping equipment with canter rings and chipper heads
- personal protective equipment suitable for aligning sawing production systems
- manufacturers' instructions for use, repair and maintenance of equipment
- work order for repair and maintenance activities with specific instructions for aligning canter rings and chipper heads in specified equipment
- equipment history records
- template documents for recording processing and equipment faults
- organisational policies and procedures for aligning sawing production systems.

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.

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