



Australian Government

FWPCOT3286 Identify levelling and tensioning requirements for saw blades

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 5.0.

Application

This unit of competency describes the skills and knowledge required to identify the levelling and tensioning requirements for circular, narrow and wide band saw blades that have been removed from the sawing machine.

The unit applies to individuals who identify levelling and tensioning requirements for saw blades used in sawmilling operations.

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.

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

Pre-requisite Unit

Nil

Unit Sector

Common Technical (COT)

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.</i>
1. Prepare to identify levelling and tensioning requirements	1.1 Review work order to determine job requirements and, where required, seek clarification from appropriate personnel 1.2 Review workplace health and safety procedures, including the use of personal protective equipment, equipment lock-out and safe manual

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	handling techniques 1.3 Identify, assess and take actions to mitigate risks and hazards associated with handling and inspecting saw blades 1.4 Identify and implement workplace procedures for minimising waste material and maximising energy efficiency
2. Inspect blade	2.1 Handle saw blade to avoid damaging teeth 2.2 Clear foreign material from saw blade surfaces for inspection 2.3 Inspect saw blade and use correct terminology to identify defects 2.4 Declare saw unserviceable where hazardous defects are found 2.5 Segregate and dispose of unserviceable saws according to workplace procedures and environmental protection practices
3. Determine levelling and tensioning requirements	3.1 Identify levelling and tensioning requirements for the saw blade 3.2 Identify method and tools and equipment required for levelling and tensioning saw blade 3.3 Verify requirements and appropriate methods for levelling and tensioning with supervisor as required 3.4 Record inspection results according to workplace requirements

Foundation Skills

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.

Skill	Description
Reading	Extracts essential information from standard reference manuals on levelling and tensioning saw blades
Writing	Prepares routine written reports using the required format, language and structure
Oral communication	Employs speaking, active listening and questioning skills to verify own recommendations related to levelling and tensioning requirements with supervisor
Numeracy	Uses numerical values to describe saw blade dimensions

Skill	Description
Navigate the world of work	Understands main tasks, responsibilities and boundaries of own role
Interact with others	Uses modes of communication suitable to purpose to confirm and clarify understanding
Get the work done	Recognises and responds to routine problems

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3286 Identify levelling and tensioning requirements for saw blades	Not applicable	New unit	No equivalent unit

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPCOT3286 Identify levelling and tensioning requirements for saw blades

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that, on at least one occasion, the individual has:

- inspected and determined the levelling and tensioning requirements for one or more of the following types of saw blades according to the work order:
 - circular
 - narrow band
 - wide band.
- In doing the above job, the individual has:
 - followed work order and relevant workplace health and safety and environmental protection procedures
 - identified, assessed and taken actions to mitigate risks and hazards associated with inspecting saw blades
 - used personal protective equipment (PPE) throughout the work
 - recorded inspection outcomes according to workplace requirements.

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:

- characteristics of circular, narrow and wide band saw blades
- purpose of levelling and tensioning saw blades
- consequences of incorrect levelling and tensioning of saw blades
- frequency and timing of levelling and tensioning saw blades
- terminology related to levelling and tensioning saw blades:
 - lump
 - ridge
 - twist

- dished
- loose
- fast
- tight/stiff
- tension
- saw blade tools and equipment used in levelling and tensioning saw blades
- importance of levelling blades, setting tension and applying curvature to match requirements for:
 - characteristics of various materials sawn
 - speed of the sawing process
 - direction of the sawing process
 - cutting angle for sawing
 - saw blade specifications
- methods for:
 - removing saw blades from circular saws
 - assessing saw blade condition
 - levelling and tensioning blades to specified requirements
 - applying curvature
 - checking saw blades after levelling and tensioning
- characteristics of metal used in circular saw blades, and range of force that can be applied without damaging blades
- saw blade defects:
 - lumps, ridges, and twists
 - areas of excessive tension
 - areas of insufficient tension
 - compressive and tensile stresses
- types of risk and hazards and mitigation measures associated with inspecting, levelling and tensioning saw blades
- workplace policies and procedures specific to levelling and tensioning circular saw blades:
 - workplace health and safety, with particular emphasis on equipment lock-out and use of PPE
 - communication reporting lines
 - recording and reporting of 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.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a forest product factory setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - circular and band saw blades for inspection to determine levelling and tensioning requirements
 - PPE for inspecting, levelling and tensioning saw blades
- specifications:
 - template documents for recording levelling and tensioning requirements for saw blades
 - manufacturer instructions for levelling and tensioning saw blades
 - work order with specific instructions for inspecting and identifying the levelling and tensioning requirements of saw blades
 - workplace procedures for assessing the dimensional accuracy and surface quality of sawn timber products and determining the levelling and tensioning requirements of saw blades.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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