



Australian Government

Assessment Requirements for FWPSAW3237 Level and tension circular 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.

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:

- levelled and tensioned circular saw blades for one or both of the following types of saws:
 - circular saw
 - hot saw
- in doing the above job:
 - followed work order and relevant workplace health and safety and environmental protection procedures
 - removed and replaced circular saw blades from the saw
 - assessed circular saw blade conditions in line with standard operating procedures.

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:

- basic knowledge of physics of sawing, including:
 - saw blade material and properties
 - impact of timber properties on saw blades
 - direction of cut
 - forces on a blade
 - heat removal
 - sawtooth configuration
- purpose, features and operation of saws for which blades are levelled and tensioned:
 - circular saws
 - hot saws
- features and names of different parts of different types of circular saw blades:

- circular crosscut blades
- rip saw blades
- purpose, features and operation of tools and equipment used to level and tension circular saw blades:
 - hammers
 - stretcher rolls
 - levelling rolls
 - heat tensioning instruments
 - gauges and straight edges
- importance of levelling and tensioning circular saw blades to match requirements for:
 - characteristics of various materials sawn
 - speed of the sawing process
 - direction of the sawing process
 - saw blade rim speed
 - saw blade specifications
- methods for:
 - removing saw blades from circular saws
 - assessing saw blade condition
 - levelling and tensioning blades to specified requirements
 - applying curvature
- characteristics of metal used in the circular saw blades, and range of force that can be applied without damaging blades
- workplace procedures specific to levelling and tensioning circular saw blades:
 - workplace health and safety, with particular emphasis on equipment lock-out, the use of personal protective equipment (PPE) and safe manual handling techniques
 - communication reporting lines
 - recording and reporting of processing and equipment faults
- environmental protection practices applied to saw technician workshops and timber processing facilities:
 - 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 saw technician workshop, a timber processing facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:

- tools and equipment used to level and tension circular saw blades: hammers, stretcher rolls, levelling rolls, tensioning instruments, gauges and straight edges
- one or both of the following types of circular saws to be repaired or maintained: circular saws, hot saws
- circular saw blades for cutting timber products to be levelled and tensioned: circular crosscut blades, rip saw blades
- PPE suitable for levelling and tensioning circular saw blades
- specifications:
 - document, spreadsheets and proformas for recording processing and equipment faults
 - manufacturer instructions for use, repair and maintenance of equipment
 - work order with specific instructions for levelling and tensioning circular saw blades for specified sawing equipment
 - workplace procedures for levelling and tensioning circular saw blades.

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

Links

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