



Australian Government

**Assessment Requirements for
FWPSAW3239 Assess and maintain wide
band saw blades**

Release: 1

Assessment Requirements for FWPSAW3239 Assess and maintain wide band saw blades

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:

- followed work order and relevant workplace health and safety and environmental protection procedures
- removed and replaced saws from equipment
- assessed saw condition
- levelled, tensioned and measured the back-crown of the saw blade
- repaired teeth and blade cracks
- used welding processes and materials to produce:
 - weld beads that provide full penetration fusing together adjacent metal parts
 - welds free from any faults that would have the potential to weaken the strength and endurance capability of the weld deposit and weld zone.

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:

- purpose, features and operation of wide band saw blade for which repairs are completed
- features and names of different parts of wide band saw blades
- purpose, features and operation of tools and equipment used to repair and maintain wide band saw blades:
 - hammers
 - stretcher or tension rolls
 - levelling rolls
 - tension gauges and straight edges, back-gauges
 - welding equipment and welding materials

- importance of levelling and tensioning blades and applying curvature to match workplace requirements for:
 - characteristics of various materials sawn
 - speed of the sawing process
 - direction of the sawing process
 - saw blade specifications
- methods for:
 - removing saw blades from band saws
 - assessing saw blade condition
 - levelling and tensioning blades to specified requirements
 - assessing curvature
 - welding to build up and replace teeth
 - grinding and filing rebuilt or replaced teeth to required shape, tolerance and pitch
- basic knowledge of physics of sawing:
 - saw blade material and properties
 - impact of timber properties on saw blades
 - direction of cut
 - forces on a blade
 - heat removal
 - sawtooth configuration
- characteristics of metal used in wide band saw blades, and range of forces which can be applied without damaging blades
- types of risk and hazards and mitigation measures associated with maintaining wide band saw blades
- workplace procedures specific to maintaining wide band saw blades:
 - workplace health and safety, with particular emphasis on equipment lock-out, 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 for repairing and maintaining tools and equipment in sawmills:
 - 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 sawmill or an environment that accurately represents workplace conditions

- resources, equipment and materials:
 - hammers
 - stretcher or tension rolls
 - levelling rolls and attachments
 - tension gauges and straight edges, back-gauges
 - welding equipment
 - heating and annealing equipment
 - welding jigs
 - run-on and run-off tabs
 - punches
 - engineers' hammers
 - angle grinders
 - sanders
 - hand files
 - abrasive paper or cloth
 - welding material
 - wide band saw blades to be maintained
 - PPE suitable for repairing and maintaining wide band saw blades
- specifications:
 - manufacturer instructions for use, repair and maintenance of equipment
 - work order with specific instructions for repairing wide band saw blades
 - documents, spreadsheets and proformas for recording processing and equipment faults
 - workplace procedures for maintaining wide band 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>