



Australian Government

Assessment Requirements for FWPSAW3234 File and set saw blades for hand saws and circular saws

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:

- followed work order and relevant workplace health and safety and environmental protection procedures
- removed and replaced saw blades from a hand saw, circular saw or both
- assessed saw blade condition through checking for each of the following:
 - cracks
 - altered state of tension in a blade from excessive heat during cutting
 - weaknesses or damage caused through the stress of bending teeth
- bevelled teeth and assessed bevel lengths, widths, angles and surface texture according to workplace procedures and production requirements
- set teeth and assessed 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:

- purpose, features and operation of saws for which blades are filed and set:
 - hand saws
 - circular saws
- features and names of different parts of saw blades
- purpose, features and operation of tools and equipment used to file and set saw blades:
 - jigs
 - vices
 - setting instruments
 - levers and gauges

- automatic or hand-held grinders
- bevel files
- importance of setting teeth 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 saws
 - assessing saw blade condition
 - setting teeth to a specified profile
 - grinding and bevelling teeth to required shape, tolerance and pitch
 - compensating for the effects of spring back
- back clearance and face angles at which blades are bevelled (blade geometry)
- characteristics of metal used in saw blades
- causes and consequences of spring back
- types of risk and hazards and mitigation measures associated with filing and setting saw blades
- workplace policies and procedures specific to filing and setting 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 applicable to saw technician workshops or 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 file and set saw blades: jigs, vices, setting instruments, levers and gauges, automatic or hand-held grinders, hand files
 - one or more of the following types of saws for which the saw blade is to be filed and set: hand saws, circular saws

- PPE suitable for filing and setting saw blades
- specifications:
 - template documents for recording processing and equipment faults
 - manufacturer instructions for use, repair and maintenance of equipment
 - work order with specific instructions for filing and setting saw blades in specified sawing equipment
 - workplace policies and procedures for filing and setting 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>