



Australian Government

Assessment Requirements for FWPSAW3212 Sharpen tipped circular saws

Release: 2

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Modification History

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version 3.0.
Release 1	This version released with FWP Forest and Wood Products Training Package Version 2.0.

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 sharpening tipped circular saws
- sharpen tipped circular saws in line with the work order and within prescribed organisational requirements
- remove and replace tipped circular saw blades from equipment
- assess the condition of blade teeth for:
 - sharpness of each tooth
 - damage to teeth
 - pitch
 - number of teeth per metre.

Knowledge Evidence

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

- purpose, features and operation of circular saws for which tipped blades are sharpened:
 - circular saws
 - hot saws
 - cold saws
- features and names of different parts of circular saw blades
- purpose, features and operation of tools and equipment used to sharpen tipped circular saw blades:
 - manually or automatically adjustable grinding machines

- abrasive wheels
- importance of sharpening and setting teeth and tension 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
 - sharpening blades to specified requirements
 - setting teeth to a specified profile
 - setting concentricity of teeth
- tooth pitch and tooth angles at which blades are sharpened (blade geometry)
- range of speeds at which abrasive wheels can be operated without damaging blades
- organisational policies and procedures specific to sharpening tipped circular saw blades:
 - 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

Assessment Conditions

The following resources must be made available:

- tools and equipment used to sharpen tipped circular saw blades:
 - manually or automatically adjustable grinding machines
 - abrasive wheels
 - measuring tools equipment
- circular saws for which blades are to be sharpened:
 - circular saws
 - hot saws
 - cold saws
- tipped circular saw blades for sharpening
- replacement tips:
 - tungsten carbide

- satellite
- other alloyed materials; high speed steel
- personal protective equipment suitable for sharpening tipped circular saw blades
- manufacturers' instructions for use, repair and maintenance of equipment
- work order for repair and maintenance activities with specific instructions for sharpening tipped circular saw blades in specified equipment
- documents, spreadsheets and commonly used proformas for recording processing and equipment faults
- relevant personnel for the purposes of communicating information
- organisational policies and procedures for sharpening tipped circular saw blades.

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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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>