



Australian Government

Assessment Requirements for FWPSAW3218 Replace tungsten tips

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 replacing tungsten tips
- replace tungsten tips in line with the work order and within prescribed organisational requirements
- remove and replace tungsten tips from equipment
- remove and assess the condition of tungsten tips in line with standard operating procedures.

Knowledge Evidence

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

- purpose, features and operation of saws for which tungsten tips are replaced:
 - band saws
 - circular saws
 - gang saws
- features and names of different parts of saw blades
- purpose, features and operation of tools and equipment used to replace tungsten tips:
 - brazing equipment and brazing material
 - brazing jigs
- methods for:
 - removing saw blades from saws
 - assessing saw blade condition

- removing tungsten tips from saw blades
- brazing new tungsten tips onto the tooth face or tooth seat
- annealing processes and temperatures for tungsten tips and saw blades
- appropriate tolerances for weld deposits and replacement tip sizes
- characteristics of metal used in saw blades and effects of brazing
- organisational policies and procedures specific to replacing tungsten tips:
 - 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 replace tungsten tips:
 - brazing equipment
 - brazing jigs
- one or more of the following types of saws to be repaired and maintained:
 - band saws
 - circular saws
 - gang saws
- tungsten tips
- brazing material:
 - silver braze (silver solder)
 - special shock absorbing shim
 - flux in the form of a liquid or paste
- personal protective equipment suitable for replacing tungsten tips
- manufacturers' instructions for use, repair and maintenance of equipment
- work order for repair and maintenance activities with specific instructions for replacing tungsten tips 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 replacing tungsten tips.

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.

Links

Companion Volume implementation guides are found in VETNet -

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