



Australian Government

FWPCOT3211 Maintain sawdoctoring tools

Release: 1

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Modification History

Release	Comment
1	Replaces equivalent unit FPICOT3211B Maintain sawdoctoring tools, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.

Application

This unit of competency describes the outcomes required to assess tool wear and the need to recondition straight edges and tension guides by grinding, machining or filing. Work is completed in a forest products factory setting.

The unit applies to Sawdoctor, Saw Repairer.

No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Common Technical; applies across sectors

Elements and Performance Criteria

<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.</i>
1. Prepare for maintenance	1.1 Review work order and where required check with appropriate personnel. 1.2 Select appropriate repair, maintenance and personal protective equipment and check for operational effectiveness. 1.3 Remove sawdoctoring tools for reconditioning from designated machinery. 1.4 Plan maintenance process in line with work order.

2. Recondition straight edge	2.1 Follow organisational safety procedures and manufacturer's recommendations throughout all repair and maintenance processes. 2.2 Assess straight edge damage and wear select appropriate reconditioning method. 2.3 Determine correct work angle for re-surfacing or removal of wear. 2.4 Clamp straight edge at correct angle to prevent movement, vibration and slippage during the re-surfacing process. 2.5 Inspect abrasive wheel or cutting tool, clean or change as required to suit work material removal, tolerance and surface texture requirements. 2.6 Grind, machine or file straight edge to remove distortions and maintain edge straightness and flatness without overheating or causing distortion, 2.7 Remove all signs of wear or damage from reference surfaces. 2.8 Clean straight edge and debur edges. 2.9 Dispose of distorted sawdoctoring tools in line with environmental protection practices.
3. Recondition tension gauge	3.1 Select grinder or other appropriate enterprise method for reconditioning tension gauges in line with organisational procedures. 3.2 Set grinder to produce required radius or circle diameter for the tension gauge. 3.3 Position tension gauge and clamp in grinder securely, ensuring cord height is central to gauge length and arc is ground square to plane of the gauge body. 3.4 Inspect grinding wheel, and dress and change to suit work, material and required tolerance. 3.5 Grind gauge to required accuracy and profile until all visible edge and face wear is removed. 3.6 Select and monitor grinding speed and feed rates to avoid overheating, distortion and burn marks. 3.7 Dispose of tension gauges distorted during the process in line with environmental protection practices. 3.8 Record and report processing problems and equipment faults to appropriate personnel.

Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.	
Numeracy skills to:	• read basic grinding wheel settings; set and adjust speeds to suit straight edge and tension gauge requirements.
Oral communication skills to:	• ask open and closed probe questions and actively listen to clarify contents of work orders.
Reading skills to:	• interpret: • workplace health and safety and other organisational procedures • work orders • manufacturers' instructions and maintenance recommendations.
Writing skills to:	• complete basic accurate records for processing problems and equipment faults.
Planning and organising skills to:	• efficiently and logically sequence the stages of preparation and repair work using work order to guide activities.

Range of Conditions

Not Applicable

Unit Mapping Information

FPICOT3211B Maintain sawdoctoring tools

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for FWPCOT3211 Maintain sawdoctoring tools

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1	Replaces equivalent unit FPICOT3211B Maintain sawdoctoring tools, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format. Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including Required Skills and Knowledge, Evidence Guide and Range Statement

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 maintaining sawdoctoring tools
- maintain sawdoctoring tools in line with prescribed organisational requirements

Knowledge Evidence

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

- purpose, features and operation of tools and equipment used to recondition straight edges and tension gauges:
 - grinding machines
 - grinding machine attachments
 - abrasive grinding wheels
- purpose, features and operation of straight edges and tension gauges
- methods for:
 - assessing condition of straight edges and tension gauges
 - selecting appropriate grinding wheels; diameter and material
 - reconditioning straight edges and tension gauges to specified requirements
- industry standard and organisational tolerances
- angles at which straight edges and tension gauges are ground

- range of speeds at which abrasive wheels can be operated without damaging materials being reconditioned
- organisational procedures specific to maintaining sawdoctoring tools:
 - workplace health and safety with particular emphasis on equipment lock out and use of personal protective equipment
 - communication reporting lines
 - recording and reporting processing problems 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 recondition straight edges and tension gauges:
 - grinding machines
 - grinding machine attachments
 - abrasive grinding wheels in a variety of diameters
 - hand files
 - oil stones
- straight edges and tension gauges for reconditioning:
 - feeler gauges
 - vernier callipers
 - micrometers
- personal protective equipment suitable for maintaining sawdoctoring tools
- manufacturers' instructions for use, repair and maintenance of equipment
- work order for repair and maintenance activities with specific instructions for reconditioning straight edges and tension gauges
- template documents for recording processing problems and equipment faults
- organisational procedures for maintaining sawdoctoring tools.

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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