



Australian Government

Assessment Requirements for FWPSAW3207 Sharpen band saws

Release: 1

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Modification History

Release	Comment
1	Replaces equivalent unit FPISAW3207B Sharpen band saws, 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 sharpening band saws
- sharpen band saws in line with a work order and within prescribed organisational requirements
- assess cutting performance as follows:
 - saw performance balanced against achievement of required production time
 - degree of deviation in the range of sawn products
- assess the condition of blade teeth for:
 - sharpness of each tooth
 - damage to teeth
 - pitch
 - number of teeth per metre
- operate the abrasive wheel at appropriate speed to remove material without affecting steel characteristics
- produce a quality of surface texture left by the abrasive wheel along the entire profile and at the intersection of all cutting edge angles.

Knowledge Evidence

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

- purpose, features and operation of band saws for which blades are sharpened
- features and names of different parts of band saw blades
- purpose, features and operation of tools and equipment used to sharpen band saw blades:
 - sharpening machines
 - grinding 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 band saws
 - assessing saw blade condition
 - sharpening blades to specified requirements
 - setting teeth to a specified profile
 - setting tension of blades to specified requirements
 - aligning saw 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 band 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 band saw blades:
 - sharpening machines
 - grinding wheels
- band saws for which blades are to be sharpened
- one or more of the following types of band saw blades to be sharpened:
 - wide band saw blades used for processing timber products
 - narrow band saw blades used for cutting both ferrous and non-ferrous materials

- personal protective equipment suitable for sharpening band saw blades
- manufacturers' instructions for use, repair and maintenance of equipment
- work order for repair and maintenance activities with specific instructions for sharpening band saw blades in specified equipment
- template documents for recording processing and equipment faults
- organisational procedures for sharpening band 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.

Links

Companion Volume implementation guides are found in VETNet -

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