



Australian Government

Assessment Requirements for FWPSAW3227 Select and saw logs in multi-species operations

Release: 1

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Modification History

Release	Comment
1	Replaces equivalent unit FPISAW3227B Select and saw logs in multi-species operations, 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 selecting and sawing logs in multi-species operations
- select logs in line with production requirements and log utilisation, including assessment of
 - diameter range
 - curvature
 - faults
 - softwood species of various types
 - moisture content
- select and saw logs in multi-species operations to produce flitches in line with a work order and within prescribed organisational specifications
- adjust break down process regularly to allow for changes in species
- complete these types of basic non-specialist maintenance:
 - cleaning the machine of wood chips and sawdust
 - replacing blunt saw blades
 - inspecting machine parts for wear or damage, including guards
 - greasing and lubricating moving parts
 - checking the operation of emergency stop buttons and lock out systems.

Knowledge Evidence

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

- purpose, features and operation of equipment used to saw flitches and cants:
 - carriages:
 - standard three headed dog carriages
 - flat top carriages with head rigs
 - saws:
 - circular saws
 - bench saws
 - overhead frame saws or band saws
- mechanical feed
- conveyor system to transport logs to and from the sawing area
- maintenance tools and equipment for saws
- typical range of industry and organisation specific species types:
 - visual characteristics of logs
 - recovery characteristics
- typical work flow processes for sawing flitches and cants
- methods of adjusting workflow and sawing schedule during operation to account for differences in species
- range of cutting patterns used on logs to achieve maximum output of flitches and cants
- different cutting patterns required for different species of trees
- assessment of logs for:
 - diameter range
 - curvature
 - faults
 - softwood species of various types
 - moisture content
- range of feed rates and how they affect production output and finished quality of flitches and cants
- typical flow of log supply in and out of the sawing area
- methods for assessing saw blade condition
- species and recovery characteristics of timber and timber defects
- cutting pattern requirements, feed rates and finish
- flow control systems and marking requirements
- environmental protection practices for forest products factory settings:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing timber
- typical log defects and how they affect ability to produce quality flitches and cants:
 - warp

- wane
- curvature
- cupping
- shakes
- insect defects
- knots
- resin pockets
- organisational procedures specific to selecting and sawing logs in multi-species operations:
 - 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.
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Assessment Conditions

The following resources must be made available:

- one or more of the following types of carriages:
 - standard three headed dog carriages
 - flat top carriages with head rigs
- one or more of the following types of saws:
 - circular saws
 - bench saws
 - overhead frame saws or band saws
- mechanical feed
- conveyor system to transport logs to and from the sawing area
- maintenance tools and equipment for saws
- consumable saw blades
- personal protective equipment suitable for selecting and sawing logs
- a selection of logs from different species of trees
- manufacturers':
 - instructions for equipment use
 - recommendations for repairing and maintaining equipment
- work order with specific instructions for selecting and sawing logs and despatch to downstream processing
- template documents for recording equipment faults and maintenance requirements
- relevant personnel for the purposes of communicating information
- organisational procedures for selecting and sawing logs in multi-species operations.

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>