



Australian Government

Assessment Requirements for FWPSAW3250 Select and saw logs in multi-species operations

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 5.0.

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that, on at least one occasion, the individual has:

- followed work order and relevant workplace health and safety and environmental protection procedures
- selected logs according to production requirements and log utilisation that included assessment of at least one of the following:
 - diameter range
 - curvature
 - faults
 - softwood species of various types
 - moisture content
- sawn logs in multi-species operations to produce flitches in line with a work order and workplace specifications
- adjusted break down process regularly to allow for changes in species
- completed at least one of the following types of basic non-specialist maintenance of equipment tasks:
 - 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

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- types of risk and hazards and mitigation measures associated with selecting and sawing logs in multi-species operations
- workplace 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 (PPE)
 - communication reporting lines
 - recording and reporting processing problems and equipment faults
- environmental protection practices for timber processing operations:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing timber
- purpose, features and operation of equipment used to saw flitches and cants:
 - carriages, including standard three-headed dog carriages and flat top carriages with head rigs
 - saws, including circular saws, bench saws and overhead frame saws or band saws
- operation of the mechanical feed
- operation of the conveyor system to transport logs to and from the sawing area
- types and uses of maintenance tools and equipment for saws
- typical range of industry and organisation specific species types:
 - visual characteristics of logs
 - recovery characteristics
- typical workflow 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 impact on the 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
- typical log defects and how they impact on the ability to produce quality flitches and cants:
 - warp

- wane
- curvature
- cupping
- shakes
- insect defects
- knots
- resin pockets.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a timber processing plant or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - one or more of the following types of carriages: standard three-headed dog carriages and flat top carriages with head rigs
 - one or more of the following types of saws: circular saws, bench saws and 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
 - PPE suitable for selecting and sawing logs
 - a selection of logs from different species of trees
- specifications:
 - template documents for recording equipment faults and maintenance requirements
 - manufacturer instructions for use, repair and maintenance of equipment
 - work order with specific instructions for selecting and sawing logs from multiple species, and despatch to downstream processing
 - workplace procedures for selecting and sawing logs in multi-species operations.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volumes, including Implementation Guides, are available at VETNet: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>