



Australian Government

Assessment Requirements for FWPSAW3249 Saw logs using CNC optimising systems

Release: 1

Assessment Requirements for FWPSAW3249 Saw logs using CNC optimising systems

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
- sawn logs using computer numerical control (CNC) optimising systems in line with work order and within prescribed organisational tolerances
- set computer programs for the CNC optimising system to follow
- completed the following basic non-specialist maintenance activities:
 - 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:

- environmental protection practices for forest products factory settings:
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing timber
 - reducing water and energy use
- typical log defects and how they affect ability to produce quality flitches and cants:
 - warp
 - wane
 - curvature

- cupping
- shakes
- insect defects
- knots
- resin pockets
- typical workflow processes for sawing flitches and cants with CNC optimising saws
- typical flow of log supply in and out of the sawing area
- range of cutting patterns used on logs to achieve maximum output of flitches and cants
- range of feed rates and how they affect production output and finished quality of flitches and cants
- purpose, features and operation of CNC optimising and other equipment used to saw flitches and cants:
 - CNC optimising saws
 - CNC computer program
 - mechanical feed
 - conveyor system to transport logs to and from the sawing area
 - maintenance tools and equipment for saws
- methods for assessing saw blade condition
- organisational procedures specific to operating CNC optimising saws:
 - workplace health and safety, with particular emphasis on equipment lock-out and use of personal protective equipment (PPE)
 - communication reporting lines
 - recording and reporting of processing problems and equipment faults.

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:
 - CNC optimising saws
 - CNC computer program
 - maintenance tools and equipment for saws
 - consumable saw blades
 - PPE suitable for operating CNC optimising saws
 - a diverse, comprehensive and commercial range of logs
- specifications:
 - manufacturer instructions for use, repair and maintenance of equipment
 - work order with specific instructions for sawing logs and despatch to downstream processing

- template documents for recording equipment faults and maintenance requirements
- workplace procedures for operating CNC optimising saws.

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>