Australian Government

Assessment Requirements for FWPSAW3244 Align sawing production systems

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:

- aligned the following types of sawing production systems:
  - chipper head
  - circular and band sawing machines and feed systems including line bars and carriages
- in doing the above job, the individual has:
  - followed work order and relevant workplace health and safety and environmental protection procedures
  - implemented equipment shutdown procedures
  - assessed the performance of sawing machine and system
  - re-assembled sawing production systems and tested for operational effectiveness
  - identified routine processing and equipment faults and resolved or reported to appropriate personnel.

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:

- purpose, features and operation of:
  - chipper heads
  - sawing machines and feed systems including line bars and carriages
- purpose, features and operation of tools and equipment used to align sawing production systems
- advantages and disadvantages of using laser or surveying equipment to conduct major alignments
- conditions related to saw blades and accuracy of cuts that indicate that sawing machine is out of alignment

- reasons for aligning various parts of sawing systems:
  - reducing sawing deviation, vibration, and downtime
  - increasing production rates
  - improving quality of sawn finish
- identification of alignment factors that will impact on the performance of the sawing production systems
- methods for:
  - assessing machine and system performance against recovery percentages, product sizing and/or standard deviation
  - dismantling mechanical components of production machines
  - aliging chipper heads
  - aligning sawing machines
  - re-assembling production machines and testing operational effectiveness
- tools and equipment used to align sawing production systems:
  - tools for removing and adjusting mechanical parts
  - jigs
  - precision measuring equipment
  - portable electrical lighting
  - feeler gauges
  - engineers' rules
  - vernier callipers
  - micrometers
  - plumb lines
  - piano wire or string lines
  - pointer
  - markers
- types of risks and hazards and mitigation strategies associated with aligning saw production systems
- workplace policies and procedures specific to aligning sawing production systems:
  - workplace health and safety, with particular emphasis on equipment lock-out, use of personal protective equipment (PPE) and safe manual handling
  - communication reporting lines
  - recording and reporting of processing and equipment faults.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
  - skills must be demonstrated in a sawmill or an environment that accurately represents workplace conditions
- resources, equipment and materials:

- tools and equipment for aligning sawing production systems
- wood chipping equipment
- sawing machines and feed systems, including line bars and carriages
- PPE suitable for aligning sawing production systems

- specifications:
  - manufacturer instructions for use, repair and maintenance of equipment
  - work order with specific instructions for aligning sawing production systems in specified equipment
  - equipment history records
  - template documents for recording operational problems and equipment faults
  - workplace procedures for aligning sawing production systems.

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