



Australian Government

Assessment Requirements for FWPCOT3282 Assess and maintain saw blade and sawing machine performance

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 the individual has, on least one occasion, assessed cutting performance of one or more of the following sawing machines and associated sawing blades or knives:

- band saw
- circular saw
- chipper
- canter
- reducer.

In doing the above, the individual has:

- followed work order and relevant workplace health and safety and environmental protection procedures
- monitored sawing operation and inspected sawing machine, in-feed and out-feed equipment and associated sawing blades or knives for identifying the types and the root cause of cutting problems
- assessed technical performance of sawing operation
- identified a safe course of action for rectifying the cutting problem
- reported on the cutting problem, fault diagnosis process and rectification outcomes.

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 sawing machines and associated blades or knives, including one or more of the following:
 - band saws and band saw blades
 - circular saws and circular saw blades

- chippers, canters, reducers and associated blades or knives
- typical sawing problems, causes and solutions:
 - cuts not straight or clean
 - excess heat
 - pitch marks in the job
 - diamond shapes and roughness in the cut
 - saw blades changed too regularly
- typical causes of damage and poor saw performance:
 - forcing timber through the in-feed equipment
 - hydraulic and electrical system not performing well
 - damage from foreign matter
 - incorrect operating speeds
 - oversized material removal
 - incorrect setting of in-feed and out-feed equipment
 - poor sharpening or setting of sawing blades or knives
- methods for:
 - assessing condition and performance of sawing blades or knives and machine
 - diagnosing causes of damage and poor performance
 - rectifying problems and improving cutting performance
- types of risk and hazards and mitigation measures associated with assessing and maintaining cutting performance
- workplace procedures specific to assessing and maintaining cutting performance:
 - workplace health and safety, with particular emphasis on machine lock-out, use of personal protective equipment (PPE) and safe manual handling techniques
 - communication reporting lines
 - recording and reporting cutting problems, the fault diagnosis process and rectification outcomes
 - disposal of material and other waste.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a timber processing or manufacturing facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - one or more of the following sawing machines and associated blades and knives: band saws, circular saws, chippers, canters, reducers
 - PPE suitable for assessing and maintaining saw performance
- specifications:
 - records of equipment fault and cutting performance

- template documents for recording and reporting cutting problems, the fault diagnosis process and rectification outcomes
- workplace procedures for assessing and maintaining sawing machine performance
- manufacturer instructions for use, repair and maintenance of sawing machine, including in-feed and out-feed equipment
- work order with specific instructions for assessing cutting performance of sawing machine and blades or knives.

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>