



Australian Government

Assessment Requirements for FWPCOT3278 Sharpen cutters in head using a straight knife grinder

Release: 2

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Modification History

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version 6.0.
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 sharpened cutters in head using a straight knife grinder and has:

- followed work order and relevant workplace health and safety and environmental protection procedures
- cleaned and checked cutter head prior to sharpening
- prepared the grinder
- mounted and adjusted cutter head in grinder
- stored cutter head after sharpening
- completed workplace reports.

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, operating parameters, components and operation of straight knife grinders used to sharpen cutters in head
- equipment used in setting up and running straight knife grinders
- components of cutter head
- types of cutters used to produce simple profiles
- types, effects and remedial action for dealing with cutter and cutter head faults:
 - warp
 - cracks
 - chips

- burns
- delamination
- raised spots
- types, effects and remedial action for dealing with grinding wheel faults:
 - cracks
 - clogging
- effects of incorrect set-up of coolant flow, traversing stops, traversing speed, wheel advance, grinding angle
- problems associated with operation of grinder:
 - burning
 - incorrect grinding angle
 - incorrect cutter set-up
- defects in cutter edges after sharpening:
 - burning
 - chipping
 - grinding marks
- procedures for:
 - cleaning cutter head
 - preparing grinder
 - mounting and adjusting cutter head in grinder
 - grinding and honing cutters in-head
 - storing cutter head
- tolerances for concentricity and weight
- types and applications of simple profiles:
 - dressed all round (DAR) boards, either with a square edge or pencil round edge
 - skip-dressed boards
- types and effects of hazards and control measures associated with using grinders:
 - grinding wheel disintegration
 - loose grinding wheel
 - exposure to grinding coolant
- workplace procedures specific to using straight knife grinders:
 - workplace health and safety, with particular emphasis on equipment lock-out, isolation procedures, machine guarding and use of personal protective equipment (PPE)
 - communication reporting lines
 - recording and reporting production outcomes, equipment faults and maintenance requirements
 - environmental protection legislation relating to sawmill operations.

Assessment Conditions

Assessment of the skills in this unit of competency 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:
 - straight knife grinder
 - cutters in head for simple profiles
 - tools for setting up straight knife grinder
 - PPE for sharpening cutters in head using a straight knife grinder
 - cutters
 - lubricant
 - coolant
- specifications:
 - template documents for recording work outcomes, equipment faults and maintenance requirements
 - manufacturer instructions for sharpening cutters in head using a straight knife grinder
 - work order with specific instructions for sharpening cutters in head using a straight knife grinder
 - workplace procedures for sharpening cutters in head using a straight knife grinder.

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>