



Australian Government

Assessment Requirements for FWPCOT3281 Manufacture profile cutters

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 manufactured at least three cutters with different profiles, and has:

- followed work order and relevant workplace health and safety and environmental protection procedures
- prepared to manufacture profile cutter
- machined blank to specification
- machined specified profiles
- checked profile surface finish and dimensions against specifications
- recorded and reported production output, processing problems and equipment faults.

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:

- basic knowledge of physics of sawing, including:
 - saw blade material and properties
 - impact of timber properties on saw blades
 - direction of cut
 - forces on a blade
 - heat removal
 - sawtooth configuration
- features and operation of tools and equipment used to machine and profile blanks for profile cutters
- importance of manufacturing profile cutters to match requirements for:
 - characteristics of various materials sawn

- speed of the cutting process
- direction of the cutting process
- cutting angle
- profile cutter specifications
- methods for:
 - calculating profile cutter dimensions
 - machining and profiling blanks to the required profile
 - assessing surface finish and measuring the dimensions of the finished profile cutter against specifications and tolerances
- industry standard and organisational tolerances
- types of risk and hazards and mitigation measures associated with manufacturing profile cutters
- workplace procedures specific to manufacturing profile cutters:
 - workplace health and safety, with particular emphasis on equipment lock-out, use of personal protective equipment (PPE) and safe manual handling techniques
 - communication reporting lines
 - recording and reporting of processing problems and equipment faults
- environmental protection practices for timber processing and manufacturing facilities:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing materials.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a saw technician workshop, a sawmill or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - tools and equipment used to machine and profile blanks for profile cutters
 - measuring equipment including vernier callipers, micrometers and rules
 - blank stock for profile cutters
 - PPE suitable for manufacturing profile cutters
- specifications:
 - template documents for recording processing problems and equipment faults
 - manufacturer instructions for use, repair and maintenance of equipment
 - work order for machining activities with specific instructions for manufacturing profile cutters
 - workplace procedures for manufacturing profile cutters.

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>