



Australian Government

Assessment Requirements for FWPCOT3294 Swage and shape saw blades

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:

- safely swaged and shaped saw blades for circular and band saws
- in doing the above job, the individual has:
 - followed work order and relevant workplace health and safety and environmental protection procedures
 - set up equipment
 - recorded and reported production 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 circular and band saws for which saw blades are shaped and swaged
- features and names of different parts of circular and band saw blades
- purpose, features and operation of tools and equipment used to shape and swage blades:
 - swagers
 - swage clamps or vices
 - dies
 - measuring equipment
- importance of swaging and shaping saw blades to match requirements for:
 - characteristics of various materials sawn
 - speed of the sawing process
 - direction of the sawing process
 - cutting angle for sawing

- saw blade specifications
- techniques used to swage and shape saw teeth to specified hook, back, tangential and radial clearance angles
- industry standard and workplace tolerances
- types of risk and hazards and mitigation measures associated with swaging and shaping saw blades
- workplace procedures specific to swaging and shaping saw blades:
 - 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 problems and equipment faults
- environmental protection practices for repairing and maintaining tools and equipment in forest products factory settings:
 - 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:
 - swagers
 - swage clamps or vices
 - dies
 - wire gauges
 - test bars
 - rules
 - micrometers
 - vernier callipers
 - saw blades for circular saws and band saws
 - PPE suitable for swaging and shaping saw blades
- specifications:
 - template documents for recording production output, processing problems and equipment faults
 - manufacturer instructions for the use of equipment and recommended specifications for swaging and shaping teeth
 - work order with specific instructions for swaging and shaping saw blades for specified equipment

- workplace procedures for swaging and shaping saw blades.

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>