



Australian Government

Assessment Requirements for FWPSAW3228 Apply principles of blade design to sawing procedures

Release: 2

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Modification History

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version 3.0.
Release 1	This version released with FWP Forest and Wood Products Training Package Version 2.0.

Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit. If a specific volume or frequency is not stated below, then evidence must be provided that the following requirements have been performed on at least one occasion:

- follow organisational policies and procedures relevant to applying principles of blade design to sawing procedures
- select blades for sawing procedures in line with environmental legislation and workplace procedures
- identify and evaluate blade characteristics, properties and design capacities for these types of blades:
 - circular saw blades
 - band saw blades
 - gang saw blades
 - wide saw blades
 - standard steel
 - tungsten tipped
 - stellite tipped
- assess saw blade condition and complete basic records of faults for each of the above types of blades
- select appropriate blades to suit material being cut and production requirements in line with three work orders.

Knowledge Evidence

A person competent in this unit must be able to demonstrate knowledge of:

- purpose, features and operation of blades:

- circular saw blades
- band saw blades
- gang saw blades
- wide saw blades
- standard steel
- tungsten tipped
- stellite tipped
- properties of blades used in the forestry industry:
 - metal from which blades are made
 - tensile strength
 - geometry and concentricity
- characteristics of blades and names of different parts:
 - blade pitch
 - kerf
 - gullet
 - face
 - set
 - straightness
 - profile
 - angle
 - depth
 - teeth shape
 - application (cross cut or ripping)
 - number of teeth per metre
- methods to optimise the use of saw blades
- effects of different types of materials on saw blade wear
- typical machinery and equipment issues that can cause product waste and adversely affect blade lifespan
- methods for assessing saw blade condition
- organisational quality system procedures for use and care of blades.

Assessment Conditions

The following resources must be made available:

- blades for:
 - circular saws
 - band saws
 - gang saws
 - wide saws
- these styles of blade:

- standard steel
- tungsten tipped
- stellite tipped
- maintenance tools and equipment for blades
- personal protective equipment suitable for maintaining blades
- manufacturers' specifications for blade use and recommendations for repairing and maintaining blades
- template documents for recording blade faults
- relevant personnel for the purposes of communicating information
- work orders with specific information on materials to be cut and production requirements
- organisational quality system procedures for use and care of blades.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessor requirements

Assessors must:

- hold the appropriate assessor competency standards as outlined in regulations; and
- be able to demonstrate vocational competencies at least to the level being assessed; and
- be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence.
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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>