



Australian Government

**Assessment Requirements for
FWPCOT3233 Sharpen and align blades
and knives**

Release: 1

Assessment Requirements for FWPCOT3233 Sharpen and align blades and knives

Modification History

Release	Comment
1	<p>Replaces equivalent unit FPICOT3233B Sharpen and align blades and knives, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.</p> <p>Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including Required Skills and Knowledge, Evidence Guide and Range Statement</p>

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 sharpening and aligning blades and knives
- remove and replace babbits and set screws in line with standard operating procedures and machine settings
- pour babbits to site procedures and finishing standard

Knowledge Evidence

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

- purpose, features and operation of equipment for which blades and knives are sharpened
- blade and knife properties, at a basic level of understanding:
 - metal from which blades and knives are made
 - tensile strength
 - geometry
- features of typical blade and knife defects:
 - burrs
 - burns
 - chips
 - splits

- dents
- purpose, features and operation of tools and equipment used to sharpen blades and knives:
 - grinding machines
 - grinding machine attachments
 - abrasive grinding wheels
 - babbitt making equipment
- methods for:
 - removing blades and knives from machinery
 - assessing blade and knife condition
 - selecting appropriate grinding wheels; diameter and material
 - cleaning blades and knives
 - sharpening blades and knives to specified requirements
 - reconditioning babbitts
 - aligning blades and knives to specified requirements
- angles at which blades and knives are sharpened
- range of speeds at which abrasive wheels can be operated without damaging blades and knives
- organisational procedures specific to sharpening and aligning blades and knives:
 - workplace health and safety with particular emphasis on equipment lock out and use of personal protective equipment
 - communication reporting lines
 - recording and reporting 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

The following resources must be made available:

- tools and equipment used to sharpen and align blades and knives:
 - grinding machines
 - grinding machine attachments
 - abrasive grinding wheels in a variety of diameters
 - babbitt making equipment
- machinery for which which blades and knives are to be sharpened
- blades and knives for sharpening including one or more of the following:
 - chipper and canter or reducer knives
 - planer and thicknesser blades
 - spindle moulder knives

- guillotine blades
- other blades and knives that can be sharpened through a parallel grinding process
- consumable coolant and screws
- personal protective equipment suitable for sharpening and aligning blades and knives
- manufacturers' instructions for use, repair and maintenance of equipment
- work order for repair and maintenance activities with specific instructions for sharpening and aligning blades and knives in specified equipment
- template documents for recording processing problems and equipment faults
- organisational policies and procedures for sharpening and aligning blades and knives.

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.

Links

Companion Volume implementation guides are found in VETNet -

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