



Australian Government

Assessment Requirements for FWPCOT3225 Mechanically stress grade timber

Release: 1

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Modification History

Release	Comment
1	Replaces equivalent unit FPICOT3225B Mechanically stress grade timber, 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. 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

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:

- operate a mechanical stress grading machine, in line with work orders, to grade the following types of timber boards:
- native timber species
- imported timber species
- dressed timber
- in-the-rough timber
- preservative treated timber
- complete operator maintenance on the mechanical stress grading equipment.

Knowledge Evidence

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

- typical flow of material supply in and out of the grading area
- typical work flow processes and techniques used to mechanically stress grade timber
- range of industry standard strength grades and thresholds and applicable terminology
- markings used on timber boards to identify grades
- reason for independent testing of boards and processes for sampling and preparing boards for testing
- purpose, features and operation of equipment used to mechanically stress grade timber:

- mechanical stress-graders or high speed mechanical graders
- spray guns
- branding rolls
- verification boards
- methods used to:
 - calibrate equipment to grades using verification boards
 - clean and maintain mechanical stress grading equipment
- organisational procedures specific to mechanically stress grading timber:
 - workplace health and safety with particular emphasis on equipment lock out, use of personal protective equipment and handling hazardous substances
 - communication reporting lines
 - recording and reporting production outcomes, equipment faults and maintenance requirements
- environmental protection practices for forest products factory settings:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of hazardous substances.
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Assessment Conditions

The following resources must be made available:

- mechanical stress-graders or high speed mechanical graders
- spray guns
- branding rolls
- maintenance tools and equipment for mechanical stress graders
- verification boards
- consumable dye
- personal protective equipment suitable for mechanically stress grading timber
- a diverse range of commercial timber:
 - native timber species
 - imported timber species
 - dressed timber
 - in-the-rough timber
 - preservative treated timber
- manufacturers' instructions for use and maintenance of equipment
- work order with specific instructions for types and quantities of timber to be graded
- template documents for recording production outcomes, equipment faults and maintenance requirements

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>