



Australian Government

Assessment Requirements for FWPCOT3296 Mechanically stress grade timber

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, on at least one occasion, mechanically stress graded timber, and has:

- followed work order and relevant workplace health and safety and environmental protection procedures
- operated a mechanical stress-grading machine or high-speed stress-grading machine according to work orders to grade one or more of the following types of timber products:
 - timber from native species
 - timber from imported species
 - dressed timber
 - in-the-rough timber
 - preservative treated timber
- completed operator maintenance on the mechanical stress-grading equipment
- recorded and reported production outcomes, equipment faults and maintenance requirements to appropriate personnel.

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:

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

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

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a timber processing plant or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - mechanical stress graders or high-speed mechanical graders
 - spray guns
 - branding rolls
 - verification boards
 - PPE suitable for mechanically stress-grading timber
 - timber boards suitable for mechanically stress-grading and sufficient quantities for the grading operation
- specifications:
 - manufacturer 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.

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>