



Australian Government

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.

Application

This unit of competency describes the outcomes required to stress grade timber with mechanical stress graders and high speed mechanical graders to test boards for strength and durability against set grades.

The unit applies to those who mechanically stress grade timber in a wood products factory setting and includes operator maintenance.

No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Sawmilling and Processing

Timber Manufactured Products

Wood Panel Products

Elements and Performance Criteria

<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.</i>
1. Prepare for stress-grading	1.1 Review work order and where required check with appropriate personnel. 1.2 Select appropriate personal protective equipment and check for operational effectiveness.

	1.3 Obtain type and quantity of timber for stress grading from storage location. 1.4 Plan stress-grading process in line with work order.
2. Set up equipment	2.1 Use equipment in line with organisational safety procedures, manufacturer's instructions and environmental protection practices. 2.2 Complete pre start-up checks on equipment to ensure operational effectiveness. 2.3 Set up spray guns or branding rolls for use in line with work order. 2.4 Complete calibration process using verification boards and set grade thresholds in line with organisational procedures.
3. Stress grade timber	3.1 Complete automatic grading process, monitor and adjust material flow to machine. 3.2 Monitor machinery to ensure consistent grade marking and board appearance in line with industry standards. 3.3 Withdraw samples for independent testing and prepare according to testing procedures.
4. Complete operator maintenance	4.1 Follow organisational safety procedures to lock out equipment. 4.2 Check and clean photo-electric cells and reflectors in line with environmental protection practices. 4.3 Check and refill spray guns or branding rolls. 4.4 Adjust and maintain mechanical stress grade rollers, auto-feed and load pressure in line with manufacturer's recommendations. 4.5 Keep stress-grading area clear of dust and debris in line with organisational safety procedures. 4.6 Record and report production outcomes, equipment faults and maintenance requirements to appropriate personnel.

Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.

Numeracy skills to:	- identify quantities of timber required within work orders and count numbers of timber boards to be graded - calibrate mechanical stress grading equipment to specified grade thresholds.
Oral communication	ask questions and actively listen to clarify contents of work orders where necessary

skills to:	
Reading skills to:	• interpret: • workplace health and safety and other organisational procedures • work orders • manufacturers' instructions and maintenance recommendations.
Writing skills to:	• complete accurate basic records for production outcomes, equipment faults and maintenance requirements.
Planning and organising skills to:	• logically sequence the stages of preparation and stress grading work using work order to guide activities.

Range of Conditions

Not Applicable

Unit Mapping Information

FPICOT3225B Mechanically stress grade timber

Links

Companion Volume implementation guides are found in VETNet -

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