



Australian Government

FWPCOT2215 Visually stress grade hardwood

Release: 1

FWPCOT2215 Visually stress grade hardwood

Modification History

Release	Comment
1	Replaces equivalent unit FPICOT2215B Visually stress grade hardwood, which was first released with FPI05 or FPI11 Forest and Forest Products Training Package Version 1. This is the first release of this unit in the new standards format.

Application

This unit of competency describes the outcomes required to visually stress grade hardwood by assessing material for strength against set classifications detailed in Australian Standard AS2858 as a minimum standard.

The unit applies to those who visually stress-grade hardwood in a forest products factory setting.

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

ELEMENTS	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 for visually stress-grading hardwood and clarify with appropriate personnel. 1.2 Identify grading requirements in line with site procedures,

ELEMENTS	PERFORMANCE CRITERIA
	standards and specifications. 1.3 Select materials, hardware items, tools and equipment appropriate to work order and check for operational effectiveness. 1.4 Position hardwood to be graded to provide appropriate access and facilitate efficient workflow. 1.5 Establish and maintain communication with others at site to ensure safety.
2. Evaluate hardwood	2.1 Identify species and check status of seasoning. 2.2 Accurately record size and tolerance measurements in line with site requirements. 2.3 Establish characteristics and evaluate in line with standards and product specifications. 2.4 Measure moisture content and evaluate against standards and seasoning requirements.
3. Grade hardwood	3.1 Visually stress grade hardwood based on standards for the required structural grade. 3.2 Diagnose and check characteristics with the greatest limiting effect on the grade. 3.3 Assess the appearance, and mark, segregate and dispose of, in line with site procedures and environmental requirements 3.4 Record and report results of grading in line with workplace procedures.

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:	- estimate, measure and calculate sizes of hardwood - effectively calibrate and use moisture meter.
Writing skills to:	accurately compile and complete grading reports.

Range of Conditions

Not Applicable

Unit Mapping Information

FPICOT2215B Visually stress grade hardwood

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for FWPCOT2215 Visually stress grade hardwood

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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:

- plan, prepare for, evaluate and visually stress grade hardwood in readiness for processing or storage
- follow work order for visually stress grading hardwood
- accurately identify characteristics and defects in hardwood
- accurately interpret grading standards and specifications
- work safely and communicate effectively with others at work site
- follow organisational policies and procedures, standards and codes of practice for visually stress grading hardwood
- record and report grading activity.

Knowledge Evidence

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

- regulations, standards, codes of practice and established safe practices for visually stress-grading hardwood
- organisational and site standards, policies and procedures for visually stress-grading hardwood
- environmental risks and hazards associated with grading timber
- criteria for recycling and re-using sub-standard material
- visual stress-grading techniques and methods
- grading markings and standards
- characteristics and properties of hardwood

- structural grade of hardwood
- storage systems and labelling procedures
- disposal methods for timber with defects or contamination including recycling, re-using and redirecting
- established communication channels and protocols
- procedures for recording and reporting workplace information.

Assessment Conditions

The following resources must be made available:

- hardwood for visual stress grading
- vernier callipers
- moisture meters (resistance and/or capacitance)
- tapes
- marking implements
- personal protective equipment required for stress grading hardwood
- work order, workplace requirements and site standards for visually stress grading hardwood
- relevant personnel for the purposes of communicating information.

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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