



Australian Government

FWPCOT2216 Visually stress grade softwood

Release: 1

FWPCOT2216 Visually stress grade softwood

Modification History

Release	Comment
1	Replaces equivalent unit FPICOT2216B Visually stress grade softwood, which was first released with 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 softwood, 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 softwood 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 softwood 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 softwood 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 softwood	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 softwood	3.1 Visually stress grade softwood 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 softwood - calibrate and use moisture meter.
Writing skills to:	accurately compile and complete grading reports.

Range of Conditions

Not Applicable

Unit Mapping Information

FPICOT2216B Visually stress grade softwood

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 FWPCOT2216 Visually stress grade softwood

Modification History

Release	Comment
1	Replaces equivalent unit FPICOT2216B Visually stress grade softwood, 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:

- plan, prepare for, evaluate and visually stress grade softwood in readiness for processing or storage
- follow work order for visually stress grading softwood
- accurately identify characteristics and defects in softwood
- 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 softwood
- record and report grading activity.
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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 softwood including Australian Standard AS2858
- organisational and site standards, policies and procedures for visually stress-grading softwood
- 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 softwood
- structural grade of softwood
- 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.
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Assessment Conditions

The following resources must be made available:

- softwood for visual stress grading
- vernier callipers
- moisture meters (resistance and/or capacitance)
- tapes
- marking implements
- personal protective equipment required for stress grading softwood
- work order, workplace requirements and site standards for visually stress grading softwood
- relevant personnel for the purposes of communicating information
- regulations, standards, codes of practice and established safe practices including Australian Standard AS2858

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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