



Australian Government

FWPCOT2249 Visually stress grade hardwood

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.

Application

This unit of competency describes the skills and knowledge required to visually stress grade hardwood for strength against set classifications detailed in Australian Standard AS2082 as a minimum standard.

The unit applies to those who visually stress grade hardwood in a timber processing or manufacturing facility.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

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

Pre-requisite Unit

Nil

Unit Sector

Common Technical (COT)

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.</i>
1. Prepare for stress-grading	1.1 Review work order to determine job requirements and, where required, seek clarification from appropriate personnel 1.2 Review workplace health and safety procedures, including the use of personal protective equipment, equipment lock-out and safe manual handling techniques

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Identify, assess and take actions to mitigate risks and hazards associated with visually stress-grading hardwood 1.4 Identify workplace environmental protection procedures for minimising and disposing of waste material, cleaning tools and equipment, and maximising energy efficiency 1.5 Establish and maintain communication with others at workplace to ensure safety
2. Set up materials for stress grading	2.1 Identify grading requirements according to workplace procedures, standards and specifications 2.2 Select materials, hardware items, tools and equipment appropriate to work order, and check for operational effectiveness 2.3 Position hardwood to be graded to provide appropriate access and facilitate efficient workflow 2.4 Identify routine processing problems, and resolve or report to appropriate personnel
3. Evaluate hardwood	3.1 Identify species and defects and check status of seasoning 3.2 Accurately record size and tolerance measurements according to workplace requirements 3.3 Establish characteristics and evaluate according to standards and product specifications 3.4 Measure moisture content and evaluate against standards and seasoning requirements
4. Grade hardwood	4.1 Visually stress grade hardwood based on standards for the required structural grade 4.2 Diagnose and check characteristics with the greatest limiting effect on the grade 4.3 Assess the appearance, and mark and segregate sub-standard material for disposal, reuse or recycling according to workplace procedures and environmental requirements 4.4 Despatch graded material to appropriate storage location 4.5 Record and report results of grading according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Numeracy	- Estimates sizes of hardwood - Measures sizes of hardwood
Navigate the world of work	Understands main tasks, responsibilities and boundaries of own role
Interact with others	Uses modes of communication suitable to purpose to confirm and clarify understanding

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT2249 Visually stress grade hardwood	FWPCOT2215 Visually stress grade hardwood	Updated performance criteria to reflect environmental and workplace health and safety requirements; updated foundation skills; added performance evidence and knowledge evidence to map to performance criteria; updated unit code to reflect changes and meet compliance	Equivalent unit

Links

Companion Volumes, including Implementation Guides, are available at VETNet: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPCOT2249 Visually stress grade hardwood

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that, on at least one occasion, the individual has visually stress graded hardwood and has:

- prepared for visual stress-grading of hardwood
- evaluated and visually stress graded hardwood in readiness for processing or storage
- followed work order and relevant workplace health and safety and environmental protection procedures
- accurately identified characteristics and defects in hardwood
- accurately interpreted grading standards and specifications
- communicated effectively with others at workplace
- followed workplace procedures, standards and codes of practice for visually stress-grading hardwood
- recorded and reported grading activity.

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:

- regulations, standards, codes of practice and established safe practices for visually stress-grading hardwood
- workplace standards, policies and procedures for visually stress-grading hardwood
- risks and hazards associated with grading timber
- criteria for recycling and reusing 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, reusing and redirecting
- workplace communication channels and protocols
- procedures for recording and reporting workplace information
- strategies for identifying and resolving problems.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a timber processing or manufacturing facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - hardwood for visual stress-grading
 - vernier callipers
 - moisture meters (resistance and/or capacitance)
 - tapes
 - marking implements
 - personal protective equipment required for stress-grading hardwood
- specifications:
 - work order with specific instructions for visually stress-grading hardwood
 - workplace procedures for visually stress-grading hardwood
 - regulations, standards, codes of practice and established safe practices, including Australian Standard AS2082.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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