



Australian Government

FWPCOT2251 Visually stress grade cypress

Release: 1

FWPCOT2251 Visually stress grade cypress

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 Australian white cypress (*Callitris glaucophylla*) for strength against set classifications detailed in Section 3 of the Australian Standard AS2858 as a minimum standard.

The unit applies to individuals who visually stress grade cypress in a timber processing and 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 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 cypress 1.4 Identify workplace environmental protection procedures for minimising and disposing of waste material, cleaning tools and equipment, and maximising energy efficiency 1.5 Identify grading requirements according to workplace procedures, standards and specifications 1.6 Select materials, hardware items, tools and equipment appropriate to work order, and check for operational effectiveness 1.7 Position cypress to be graded to provide appropriate access and facilitate efficient workflow 1.8 Establish and maintain communication with others at workplace to ensure safety 1.9 Identify routine processing problems, and resolve or report to appropriate personnel
2. Evaluate cypress	2.1 Identify species and defects, including contamination, and check status of seasoning 2.2 Accurately record size and tolerance measurements according to workplace requirements 2.3 Establish characteristics and evaluate against standards and product specifications 2.4 Measure moisture content and evaluate against standards and seasoning requirements 2.5 Redirect timber with inappropriate defects or contamination for energy recovery
3. Grade cypress	3.1 Visually stress grade cypress based on standards for the required structural grade according to workplace procedures 3.2 Diagnose and check characteristics with the greatest limiting effect on the grade 3.3 Assess the appearance, and mark and segregate sub-standard material for disposal, reuse or recycling according to workplace procedures and environmental requirements 3.4 Despatch graded material to appropriate storage location 3.5 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 timber sizes - Measures timber sizes - Uses standard units of measurements when estimating and measuring timber
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
FWPCOT2251 Visually stress grade cypress	FWPCOT2217 Visually stress grade cypress	Reworded application statement; 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 FWPCOT2251 Visually stress grade cypress

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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 cypress, and has:

- prepared for visually stress-grading cypress
- followed work order and relevant workplace health and safety and environmental protection procedures
- evaluated and visually stress graded cypress in readiness for processing or storage
- accurately identified characteristics and defects in cypress
- accurately interpreted grading standards and specifications
- worked safely and communicated effectively with others at the work site
- followed workplace policies and procedures, standards and codes of practice for visually stress-grading cypress
- 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 cypress, including Australian Standard AS2858
- workplace standards, policies and procedures for visually stress-grading cypress
- risks and hazards associated with grading timber
- grading markings and standards
- characteristics and properties of cypress
- visual stress-grading techniques and methods
- structural grade: structural conformity of the timber, consistency of the structural quality, and defects that may weaken strength, including knots, shakes and short grain
- appearance of contamination, surface characteristics and grain pattern

- criteria for recycling and reusing sub-standard material
- recycling timber with inappropriate defects or contamination
- reusing timber with inappropriate defects or contamination
- redirecting timber with inappropriate defects or contamination for energy recovery
- storage systems and labelling procedures
- 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:
 - cypress for visual stress-grading
 - work order, workplace requirements and site standards for visually stress-grading cypress
 - vernier callipers
 - moisture meters (resistance and/or capacitance)
 - tapes
 - marking implements
 - personal protective equipment required for visually stress-grading cypress
- specifications:
 - work order with specific instructions for visually stress-grading cypress
 - workplace procedures for visually stress-grading cypress
 - regulations, standards, codes of practice and established safe practices, including Australian Standard AS2858.

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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