Modification history

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| Release | Comments |
| Release 2 | This version released with FWP Forest and Wood Products Training Package Version 5.0. |
| Release 1 | This version released with FWP Forest and Wood Products Training Package Version 2.0. |

| FWPCOT2217 | Visually stress-grade cypress |
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| 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 occupational licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil  |
| Unit Sector | Sawmilling and ProcessingTimber Manufactured ProductsWood Panel Products |

| Elements | Performance Criteria |
| --- | --- |
| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Prepare for stress-grading | 1.1 Review work order to determine job requirements and where required seek clarification from appropriate personnel1.2 Identify and apply workplace health and safety requirements including use of personal protective equipment and safe manual handling techniques 1.3 Identify, assess and take actions to mitigate risks and hazards associated with visually stress grading cypress1.4 Identify and implement workplace procedures for minimising waste material and maximising energy efficiency1.5 Identify grading requirements according to workplace procedures, standards and specifications1.6 Select materials, hardware items, tools and equipment appropriate to work order and check for operational effectiveness1.7 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 safety1.9 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 seasoning2.2 Accurately record size and tolerance measurements according to workplace requirements2.3 Establish characteristics and evaluate against standards and product specifications2.4 Measure moisture content and evaluate against standards and seasoning requirements2.5 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 procedures3.2 Diagnose and check characteristics with the greatest limiting effect on the grade3.3 Assess the appearance, mark and segregate substandard material for disposal, reuse or recycling according to workplace procedures and environmental requirements3.4 Despatch graded material to appropriate storage location3.5 Record and report results of grading according to workplace procedures |

| Foundation SkillsThis 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. |
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| Skill | Description |
| Numeracy | * Estimate timber sizes
* Measure timber sizes
* Use standard units of measurements when estimating and measuring timber
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| Navigate the orld of work | * Identify main tasks, responsibilities and boundaries of own role
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| Interact with others | * Use modes of communication suitable to purpose to confirm and clarify understanding
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| Get the work done | * Recognise and respond to routine problems
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| Unit Mapping Information |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FWPCOT2217 Visually stress grade cypressRelease 2 | FWPCOT2217 Visually stress grade cypressRelease 1 | Minor edits | Equivalent |

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

| TITLE | Assessment requirements for FWPCOT2217 Visually stress-grade cypress |
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| Performance Evidence |
| An individual demonstrating competency must satisfy all the elements and performance criteria in this unit. There must be evidence that, at least on one occasion, the individual has visually stress graded cypress, and has:* prepared for visually stress grading cypress
* evaluated and visually stress graded cypress in readiness for processing or storage
* followed work order for visually stress grading cypress
* accurately identified characteristics and defects in cypress
* accurately interpreted grading standards and specifications
* worked safely and communicated effectively with others at work site
* followed workplace policies and procedures, standards and codes of practice for visually stress grading cypress
* recorded and reported grading activity.
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| Knowledge Evidence |
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| 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, defects which may weaken strength, including knots, shakes and short grain
* appearance of contamination, surface characteristics and grain pattern
* criteria for recycling and re-using sub-standard material
* recycling timber with inappropriate defects or contamination
* re-using 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
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| Assessment Conditions |
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| Assessment of the skills in this unit of competency 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. |

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