



Australian Government

FWPCOT3284 Grade, sort and mark timber materials

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 evaluate timber product for classification into various strength or appearance grades, including sorting and marking product into grade classes and distributing product to storage or processing locations.

The unit applies to individuals who grade and sort materials in the forest and forest products industry.

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 work	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

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	handling techniques 1.3 Identify, assess and take actions to mitigate risks and hazards associated with timber grading and sorting operations 1.4 Identify workplace environmental protection procedures for minimising and disposing of waste material, cleaning tools and equipment, and maximising energy efficiency 1.5 Obtain type and quantity of timber material to be graded, sorted and marked from the storage location 1.6 Select equipment to assist with moving timber material, and check for operational effectiveness 1.7 Review workplace procedures for grading, sorting and marking
2. Implement procedures for grading, sorting and marking timber material	2.1 Identify procedures for timber product storage and subsequent processing operations 2.2 Visually assess and evaluate timber product characteristics and features, including defects, against industry standards for grade type 2.3 Measure, record and report moisture content 2.4 Mark features for docking 2.5 Grade, mark and sort timber product according to grade classification, and label the product using markers or stickers 2.6 Record and report grading outcomes
3. Distribute timber material	3.1 Coordinate movement of graded timber product to storage or processing operations according to workplace requirements 3.2 Reject and arrange for reuse, recycling or disposal of sub-standard product according to workplace and environment protection procedures 3.3 Monitor on-site movement of timber product to ensure intended workflow 3.4 Label storage locations 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
Reading	Extracts essential information from operational manuals to determine safe operating procedures for equipment
Writing	Prepares routine written reports using the required format, language and structure
Oral communication	Employs active listening and questioning to clarify the content of work orders
Numeracy	- Uses standard measures to describe moisture content of timber - Performs basic arithmetic calculations to count and determine timber product quantities
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
Get the work done	Recognises and responds to routine problems

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3284 Grade, sort and mark timber materials	FWPCOT3245 Grade, sort and mark materials	Updated application statement; updated performance criteria to reflect environmental and workplace health and safety requirements; updated foundation skills; added performance evidence to map to performance criteria; updated unit title and code to reflect changes	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 FWPCOT3284 Grade, sort and mark timber materials

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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:

- graded, sorted and marked three or more of the following timber products:
 - timber from native species
 - timber from imported species
 - dressed timber
 - in-the-rough timber
 - stress and non-stress graded timber
 - preservative treated timber
 - medium density fibreboard
 - laminated veneer
 - chipboard
 - plywood
 - fibreboard
 - other engineered wood products
 - coated and/or treated timber products
 - debarked logs
- during the grading, sorting and marking operation:
 - followed work order and relevant workplace health and safety and environmental protection procedures
 - safely and efficiently graded, sorted and marked materials according to workplace procedures
 - identified materials defects
 - safely used workplace equipment for lifting and moving materials
 - coordinated movement of graded material to storage or processing operations
 - recorded and reported grading outcomes to appropriate personnel.

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:

- workplace health and safety procedures, with particular emphasis on the use of personal protective equipment (PPE) and safe manual handling techniques
- types of risk and hazards and mitigation measures associated with grading and sorting activities
- equipment used for lifting and moving timber products
- types of timber products for grading and sorting
- industry standards for cross-sections and lengths for different types of timber products
- methods of visual estimation, grading, colour identification and tagging of different types of timber products
- grade classifications for different types of timber products
- procedures for sorting, marking, distribution and storage of different types of timber products
- methods of assessing timber products for number and frequency of defects
- methods for determining and recording moisture content of timber products
- timber defects, including:
 - warp
 - wane
 - cupping
 - shakes
 - insect defects
 - loose or missing knots
 - resin pockets
 - dents
 - loose surface
 - lifting coatings
 - thin or missing coatings
 - chipped edges
 - splits
 - voids
 - splintered or missing edges
 - pin holes
- criteria for disposal, recycling and reuse of sub-standard timber product
- methods for safe disposal of waste preservative treated timber.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:

- skills must be demonstrated in a timber processing plant, a timber product manufacturing plant or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - moving equipment
 - PPE suitable for grading, sorting and marking timber products
 - labelling materials
 - three or more of the following timber products for grading and sorting: timber from native species, timber from imported species, dressed timber, in-the-rough timber, stress and non-stress graded timber, preservative treated timber, medium density fibreboard, laminated veneer, chipboard, plywood, fibreboard and other manufactured board products, coated and/or treated timber products, and debarked logs
 - storage locations for graded and sorted timber products
- specifications:
 - template documents for recording outcomes of grading activities
 - work order with specific instructions for grading and sorting timber products
 - workplace procedures for grading and sorting activities.

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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