



Australian Government

FWPCOT3339 Grade wood product visually

Release: 1

FWPCOT3339 Grade wood product visually

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 8.0.

Application

This unit of competency describes the skills and knowledge required to visually assess the characteristics and defects of wood products, including recycled timber, and establish whether the strength and/or appearance properties of the product are consistent and within the grade specifications required for end-use application.

The unit applies to individuals who visually grade wood products, including recycled timber, in a wood products production facility or other work environments.

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 grading wood product	1.1 Determine job requirements from work order or specifications and, where required, seek clarification from appropriate personnel 1.2 Confirm workplace health and safety and environmental protection practices and/or procedures for task, including use of personal

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	protective equipment, lifting and moving equipment and safe manual handling techniques 1.3 Confirm legislation, standards and codes of practice relevant to visual grading operations 1.4 Identify and assess hazards and take actions to mitigate risks related to grading operations 1.5 Confirm type and quantity of wood product to be graded 1.6 Identify procedures for storage and subsequent processing of wood product 1.7 Select equipment to assist in grading wood product visually, and check for operational effectiveness
2. Grade wood product visually	2.1 Assess wood product characteristics visually for strength and/or appearance by identifying and measuring defects against performance requirements for wood product type and end-use application according to workplace grade specifications and relevant Australian Standards or industry codes of practice 2.2 Measure wood product moisture content and length requirements and tolerances against allowable limits for wood product type and end-use application according to workplace grade specifications relevant Australian Standards or industry codes of practice 2.3 Determine and mark defects and wood products that require docking, regrading or reworking and those that are rejected 2.4 Brand, label, stamp or mark each graded wood product to indicate compliance with relevant Australian Standard and/or CodeMark certification requirements 2.5 Record wood product grading outcomes
3. Distribute graded wood product	3.1 Direct material to storage or processing operations according to workplace procedures 3.2 Arrange for reuse, recycling or disposal of sub-standard wood product according to workplace environmental protection practices and procedures 3.3 Monitor on-site movement of wood product to achieve intended flow 3.4 Record distribution problems and report to appropriate personnel

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	Interpret routine workplace documents and industry grading standards
Writing	- Produce basic clear labels for timber identification - Complete accurate basic reports on grading outcomes
Oral communication	Ask questions and actively listen to clarify work orders and job tasks and report workplace issues
Numeracy	Complete routine grading records involving numerical grades, dimensions and quantities

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3339 Grade wood product visually	FWPCOT3240 Grade heavy structural/engineered products	Redesigned unit that includes content from FWPCOT3240 Grade heavy structural/engineered products, FWPCOT3284 Grade, sort and mark timber materials and FWPSAW2201 Grade round poles and debarked logs	Not equivalent
FWPCOT3339 Grade wood product visually	FWPCOT3284 Grade, sort and mark timber materials	Redesigned unit that includes content from FWPCOT3240 Grade heavy structural/engineered products, FWPCOT3284 Grade, sort and mark timber materials and FWPSAW2201 Grade round poles and debarked logs	Not equivalent

FWPCOT3339 Grade wood product visually	FWPSAW2201 Grade round poles and debarked logs	Redesigned unit that includes content from FWPCOT3240 Grade heavy structural/engineered products, FWPCOT3284 Grade, sort and mark timber materials and FWPSAW2201 Grade round poles and debarked logs	Not equivalent
--	--	---	----------------

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 FWPCOT3339 Grade wood product visually

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 8.0.

Performance Evidence

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

There must be evidence that the individual has graded, sorted and marked one product selected from the following list for one production run according to workplace procedures:

- chipboard
- coated and/or treated timber products
- cross arms for overhead lines
- crossings
- debarked logs
- decking for wharves and bridges
- dressed timber
- fibreboard
- in-the-rough timber
- laminated veneer
- medium density fibreboard
- mine guides
- piles
- plywood
- poles
- preservative treated timber
- recycled timber
- sleepers
- stress and non-stress graded timber
- timber from imported species
- timber from native species
- other engineered wood products.

In performing each of these tasks, the individual has:

- assessed wood product characteristics visually for strength and/or appearance
- complied with legislation, standards and codes of practice relevant to visual grading operations
- measured wood product moisture content and length requirements and tolerances against allowable limits for the wood product type and end-use application
- identified defects in wood products
- identified products that require docking, regrading or reworking and those that are rejected
- branded, labelled, stamped or marked each graded wood product to indicate compliance with relevant Australian Standard and/or CodeMark certification requirements
- safely used workplace equipment for lifting and moving materials
- arranged reuse, recycling or disposal of sub-standard wood product
- coordinated movement of graded material to storage or processing operations
- 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:

- markings used on wood products to identify grades
- key requirements of legislation, standards and codes of practice relevant to visual grading operations, including:
 - Australian Standards
 - CodeMark certification
 - industry standards for cross-sections and lengths for different types of wood products
 - grade classifications for different types of wood products
- typical flow of material supply in and out of the grading area
- methods to label wood products for storage locations, and common terms used
- purpose, features and operation of equipment used to grade wood products, including moisture meters
- workplace health and safety procedures, with particular emphasis on 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 wood products
- types of timber products for grading and sorting
- methods of visual estimation, grading, colour identification and tagging of different types of wood products
- procedures for sorting, marking, distribution and storage of different types of wood products
- methods of assessing wood products for number and frequency of defects
- methods for determining and recording moisture content of wood products
- wood products 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 wood products
- 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 wood products
 - labelling materials
 - three different wood products for grading
 - storage locations for graded wood products
- specifications:
 - 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

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