



Australian Government

Department of Education, Employment and Workplace Relations

FPICOT2212B Grade hardwood sawn and milled products

Release: 1

FPICOT2212B Grade hardwood sawn and milled products

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit describes the outcomes required to visually evaluate hardwood sawn and milled product characteristics for classification into various strength and appearance grades. It includes sorting hardwood into classifications and marking material in line with grade type

General workplace legislative and regulatory requirements apply to this unit; however there are no specific licensing or certification requirements at the time of publication

This unit replaces FPICOT2212A Grade hardwood sawn and milled products

Application of the Unit

Application of the unit

The unit involves grading hardwood sawn and milled products in a forest products factory setting

The skills and knowledge required for competent workplace performance are to be used within the scope of the person's job and authority

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Not Applicable

Employability Skills Information

Employability skills This unit contains employability skills

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for grading	1.1. Applicable occupational health and safety (OHS), environmental, legislative and organisational requirements relevant to grading hardwood sawn and milled products are identified and followed 1.2. Work order is reviewed and clarified with appropriate personnel 1.3. Type and quantity of sawn and milled products to be graded are acquired from storage location 1.4. Equipment is selected appropriate to work requirements and checked for operational effectiveness in line with manufacturer recommendations and site procedures 1.5. Grading process is planned in line with site procedures 1.6. Communication with others is established and maintained in line with OHS requirements and site procedures
2. Grade products	2.1. Sawn and milled product requirements for storage or subsequent processing operations are selected 2.2. Size of sawn and milled products is visually assessed in line with industry standards and number of ranges estimated 2.3. Material characteristics of each product are evaluated against industry standards for grade type 2.4. Moisture content is measured and evaluated against standards and seasoning requirements 2.5. Characteristics are clearly marked for docking in line with site requirements 2.6. Material is sorted in line with its grade classification and clearly marked with markers or stickers 2.7. Sub-standard material is rejected and disposed of in line with site requirements 2.8. Grading outcomes and distribution problems are recorded and reported in line with workplace procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level required for this unit.

Required skills

- Technical skills sufficient to use and maintain relevant equipment; grade hardwood sawn and milled products
- Communication skills sufficient to use appropriate communication and interpersonal techniques with colleagues and others; locate, record and report information
- Literacy skills sufficient to follow legislation, regulations, standards, codes of practice and established safe practices and procedures for grading hardwood sawn and milled products
- Numeracy skills sufficient to estimate, measure and calculate size and moisture content of sawn and milled material and time required to complete a task
- Problem solving skills sufficient to review and identify work requirements; identify problems and equipment faults; demonstrate appropriate response procedures

Required knowledge

- Applicable commonwealth, state or territory legislation, regulations, standards, codes of practice and established safe practices relevant to the full range of processes for grading hardwood sawn and milled products
- Environmental protection requirements, including the safe disposal of waste material
- Organisational and site standards, requirements, policies and procedures for grading hardwood sawn and milled products
- Environmental risks and hazards
- Criteria for recycling and re-using sub-standard material
- Methods of visual estimation, grading, colour identification and tagging
- Sorting, marking and distribution processes
- Industry standard cross sections and lengths
- Storage systems and labelling procedures
- Established communication channels and protocols
- Problem identification and resolution strategies, and common fault finding techniques
- Types of tools and equipment, and procedures for their safe use, operation and maintenance
- Appropriate mathematical procedures for estimating and measuring, including calculating time to complete tasks
- Procedures for recording and reporting workplace information

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

A person who demonstrates competency in this unit must be able to provide evidence that they can safely and efficiently grade hardwood sawn and milled products in line with organisational requirements

Critical aspects for assessment and evidence required to demonstrate competency in this unit

The evidence required to demonstrate competency in this unit must be relevant to, and satisfy, all of the requirements of the elements of this unit and include demonstration of:

- following applicable commonwealth, state or territory legislative and regulatory requirements and codes of practice relevant to grading hardwood sawn and milled products
- following organisational policies and procedures relevant to grading hardwood sawn and milled products
- grading a full range of hardwood sawn and milled products in readiness for storage or processing
- Competency is to be assessed in the workplace or realistically simulated workplace
- Assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints
- Assessment of required knowledge, other than confirmatory questions, will usually be conducted in an off-site context
- Assessment is to follow relevant regulatory or Australian Standards requirements
- The following resources should be made available:
 - workplace location or simulated workplace
 - materials and equipment relevant to undertaking work applicable to this unit
 - specifications and work instructions

Context of and specific resources for assessment

Method of assessment

- Assessment must satisfy the endorsed Assessment Guidelines of the FPI11 Training Package
- Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with

EVIDENCE GUIDE

application of required knowledge

- Assessment must be by direct observation of tasks, with questioning on required knowledge and it must also reinforce the integration of employability skills
- Assessment methods must confirm the ability to access and correctly interpret and apply the required knowledge
- Assessment may be applied under project-related conditions (real or simulated) and require evidence of process
- Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances
- Assessment may be in conjunction with assessment of other units of competency
- The assessment environment should not disadvantage the candidate
- Assessment practices should take into account any relevant language or cultural issues related to Aboriginality, gender or language backgrounds other than English
- Where the participant has a disability, reasonable adjustment may be applied during assessment
- Language and literacy demands of the assessment task should not be higher than those of the work role

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

OHS requirements:

are to be in line with applicable commonwealth, state or territory legislation and regulations, and organisational safety policies and procedures, and may include:

RANGE STATEMENT

- personal protective equipment and clothing
- safety equipment
- first aid equipment
- fire fighting equipment
- hazard and risk control
- fatigue management
- elimination of hazardous materials and substances
- safe forest practices, including required actions relating to forest fire
- manual handling including shifting, lifting and carrying

Environmental requirements may include:

- legislation
- organisational policies and procedures
- workplace practices

Legislative requirements:

are to be in line with applicable commonwealth, state or territory legislation, regulations, certification requirements and codes of practice and may include:

- award and enterprise agreements
- industrial relations
- Australian Standards
- confidentiality and privacy
- OHS
- the environment
- equal opportunity
- anti-discrimination
- relevant industry codes of practice
- duty of care

Organisational requirements may include:

- legal
- organisational and site guidelines
- policies and procedures relating to own role and responsibility
- quality assurance
- procedural manuals
- quality and continuous improvement processes and standards
- OHS, emergency and evacuation procedures
- ethical standards
- recording and reporting requirements
- equipment use, maintenance and storage

RANGE STATEMENT

	requirements
	• environmental management requirements (waste minimisation and disposal, recycling and re-use guidelines)
Work order is to include:	• instructions for the receipt, despatch and grading of sawn and milled products to and from the designated storage location or processing
	and may include:
	• type • size • quantity • instructions for the environmental monitoring of work and procedures • environmental care requirements relevant to the work
Appropriate personnel may include:	• supervisors • suppliers • clients • colleagues • managers • hardwood
Sawn and milled products must be:	and may include:
	• strip flooring • light decking • parquet flooring • lining boards • dress boards • joinery • mouldings • cladding • fascia • barge boards • sawn boards for feed stocks • overlay strip flooring • furniture components
Storage locations may include:	• storage racks • storage bays • bins • stacks

RANGE STATEMENT

- pallet boxes
- modularised storage components
- temporary stacking bays (stand, frame or ground)

and may be divided into:

- standard product classification
- product designation
- size
- dimension
- stack number
- weight
- grade
- shelf life
- stock rotation position

Equipment may include:

- measuring equipment
- moisture meters
- lifting equipment for the movement of sawn and milled products

Communication may include:

- verbal and non-verbal language
- constructive feedback
- active listening
- questioning to clarify and confirm understanding
- use of positive, confident and cooperative language
- use of language and concepts appropriate to individual social and cultural differences
- control of tone of voice

Size is to include:

- a range of sizes for standard cross sections and length of sawn and milled products

Range

is the number of classifications or grades sawn and milled products are sorted into, based on cross section or length

Characteristics may include:

- warp
- wane
- curvature
- shakes
- insect defects
- knots
- resin pockets

RANGE STATEMENT

Moisture content is the amount of moisture maintained in sawn and milled products before and after kiln drying to avoid cracking and deforming

Disposing of may include:

- recycling sub-standard material
- re-using sub-standard material
- redirecting sub-standard material for energy recovery

Records and reports may include:

- product type and size
- inspection information
- grading and labelling outcomes
- storage locations
- quality outcomes
- hazards
- incidents
- equipment malfunctions

and may be:

- manual
- computer-based system
- other appropriate organisational communication system

Unit Sector(s)

Not Applicable

Competency field

Competency field Common Technical