



Australian Government

FPICOT2241 Apply wood and timber product knowledge

Release 2

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Modification History

Version	Code and title of equivalent unit of competency
2.0	Title corrected. No other changes
1.0	No equivalent unit

Unit Descriptor

Unit descriptor This unit describes the outcomes required to apply wood and timber product knowledge in the workplace and promote the benefits of wood and timber products to a range of customers and other stakeholders. It involves identifying products and providing accurate information to customers about products.

Application of the Unit

Application of the unit The unit applies in a variety of work settings, including warehousing and logistics and wholesale and retail sales.

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

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

Pre-Requisites

Not applicable.

Employability Skills Information

Employability skills This unit contains employability skills

Elements and Performance Criteria Pre-Content

Not applicable.

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

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.

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| <p>1. Develop knowledge of wood and timber products</p> | <p>1.1 Information sources for wood and timber products are identified and evaluated for reliability, validity and currency in line with organisational policies and procedures</p> <p>1.2 Wood and timber product certification bodies, schemes and their roles are researched</p> <p>1.3 Properties of wood and timber are identified</p> <p>1.4 Main features of timber products are identified</p> <p>1.5 Differences between imported wood and timber products and Australian wood and timber products are explored and clarified with relevant personnel</p> |
| <p>2. Relate wood and timber product knowledge to own workplace</p> | <p>2.1 Appropriate work/occupational health and safety (WHS/OHS), environmental and organisational policies and procedures relevant to applying wood and timber product knowledge are identified and followed</p> <p>2.2 Production process is identified and reviewed</p> <p>2.3 Advice is sought from supervisors and colleagues about current wood and timber product issues</p> <p>2.4 Common wood and timber treatment methods, preservatives and exposure hazards are identified and reviewed</p> <p>2.5 Organisation's position within the forest and forest products industry is identified</p> <p>2.6 Timber coatings and finishes are matched to a specific use</p> <p>2.7 Currency of wood and timber product knowledge is maintained</p> |
| <p>3. Promote wood and timber products</p> | <p>3.1 Characteristics of timber are promoted to stakeholders according to organisational procedures</p> <p>3.2 Information is provided to stakeholders about wood and timber products and their respective advantages in response to requests and questions and according to organisational procedures</p> <p>3.3 Advice is given on appropriate timber(s) for specific end uses</p> |

Required Skills and Knowledge

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

Required skills

- Communication and interpersonal skills to:
 - interact appropriately with colleagues and others in the workplace
 - source information on wood and timber products
 - communicate the features and characteristics of timber products to stakeholders
- Literacy skills to accurately locate, record and report information
- Problem-solving skills to establish opportunities for access to current information about wood and timber products
- Technical skills to use relevant technology to source information on wood and timber products

Required knowledge

- Organisational and site standards, requirements, policies and procedures relevant to sourcing and providing information on wood and timber products
- Established organisational communication channels and protocols
- Common timber species, their appearance, characteristics, origin and uses
- Life cycle of forests and forest products
- Methods, preservatives and exposure hazards relating to manufactured timber: engineered products, laminated veneer lumber (LVL), medium density fibreboard (MDF), plywood, and particle board
- Key features of a range of manufacturer product literature
- Certification and chain of custody schemes
- Timber grades and grading
- Wood preservatives and relevant regulations
- Problem identification and resolution strategies
- Procedures for recording and reporting workplace information
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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 develop knowledge of wood and timber products and promote those products in the workplace.

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:

Context of and specific resources for assessment

- following applicable commonwealth, state or territory legislative and regulatory requirements and codes of practice relevant to applying wood and timber product knowledge
- following organisational policies and procedures relevant to applying and communicating wood and timber product knowledge
- knowledge of products applicable to enterprise requirements
- benefits of common wood and timber types for different end uses
- suitable species and product types for a range of wood and timber applications
- ability to provide advice regarding wood and timber products to stakeholders.
- 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

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 application of required knowledge
- Assessment may be by direct observation of tasks, with questioning on required knowledge and it must also reinforce the integration of key competencies
- 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.

Information sources may include:

- Australian standards
- National Construction Code
- manufacturer and supplier websites and literature
- industry organisation websites
- 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
 - the environment
 - relevant industry codes of practice
 - organisational and site guidelines relating to developing and applying product knowledge
 - policies and procedures relating to own role and responsibility
 - procedure manuals
 - quality and continuous improvement processes

Organisational policies and procedures:

- and standards
- recording and reporting requirements
- Certification bodies and schemes** may include:
- Australian Forestry Standard (AFS)
 - Australian standards for forest management and chain of custody
 - Forest Stewardship Council (FSC)
 - environmental management systems
 - Programme for the Endorsement of Forest Certification (PEFC)
 - Australian Wood Packaging Certification Scheme
- Properties of wood and timber** may include
- durability
 - density
 - sawing orientation
 - strength group
 - shrinkage
 - joint strength
 - lyctus susceptibility
 - fire rating
 - hardness
- Main features** may include:
- carbon sequestration, capture and storage
 - sustainability and renewability
 - low energy/emissions
 - cost to produce
- Timber products** may include:
- furniture
 - paper products
 - packaging
 - timber
 - wood panel products (plywood, MDF, particleboard)
 - sawn timber
 - round timber
 - treated timber
 - glue laminated timber
 - wood composites
 - biofuels
- Relevant personnel** may include:
- supervisors
 - colleagues
 - industry associations
 - suppliers
- WHS/OHS requirements:**
- are to be in line with commonwealth, state or territory legislation and regulations, and organisational safety policies and procedures, and may include:

- safety equipment, including personal protective equipment and clothing
 - first-aid equipment
 - fire-fighting equipment
 - hazard and risk control
 - fatigue management
 - elimination of hazardous materials and substances
 - manual handling, including shifting, lifting and carrying
- Environmental requirements** may include:
- organisational policies and procedures
 - workplace practices
 - sustainability and environmental management requirements, including waste minimisation and disposal, recycling and reuse guidelines
 - energy efficiency measures
- Production process** may include:
- sawmilling
 - preservation
 - panel production
 - glue lamination
 - fabrication (trusses)
- Timber coatings and finishes** may include:
- oils
 - paints
 - stains
 - brush or spray-on preservative
 - weather protection
- Maintaining currency** may include:
- asking appropriate questions of supervisors and managers
 - sourcing information about new wood products to provide to stakeholders
- Characteristics** may include:
- moisture content
 - stability in service
 - grade
 - colour
 - strength to weight ratio
 - strength rating
 - treated timber
 - wood types
- Stakeholders** may include:
- architects
 - builders
 - craft workers
 - furniture makers

Advantages may include:

- do-it-yourself (DIY) home handy person
- wood workers
- appearance
- certification
- durability
- structural performance and efficiency sustainability:
 - insulation properties
 - environmentally attractive
 - ease of modification
 - thermal performance

Appropriate timber(s) may include:

- hazard level
- wood product type
- sustainability criteria
- timber grading (structural and aesthetic)
- wood species

End uses may include:

- artist works
- craft making
- construction, including framing
- fire rated applications
- flooring
- indoor furniture
- indoor applications, such as doorframe and architraves
- outdoor furniture
- outdoor applications, such as decking, fencing, verandahs, balconies and stairs
- toys

Unit Sector(s)

Timber Merchandising
Timber Manufactured Products
Sawmilling and Processing
Wood Panel Products

Custom Content Section

Not applicable.