



Australian Government

Department of Education, Employment and Workplace Relations

FPISA W2210B Prepare for timber treatment operations

Release: 1

FPISAW2210B Prepare for timber treatment operations

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit describes the outcomes required to prepare for timber treatment operations with authorised chemicals and specified timbers

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 FPISAW2210A Prepare for timber treatment operations

Application of the Unit

Application of the unit

The unit involves preparing for timber treatment operations 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

Prerequisite units

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. Plan for treating	<p>1.1. Applicable Occupational Health and Safety (OHS), environmental, legislative and organisational requirements relevant to preparing for timber treatment operations are identified and followed</p> <p>1.2. Work order is reviewed and checked with appropriate personnel</p> <p>1.3. Type and quantity of timber to be treated and chemicals to be used are assessed and acquired from the storage location</p> <p>1.4. Equipment is prepared for work requirements and checked for operational effectiveness in line with manufacturer's recommendations</p> <p>1.5. Communication with others is established and maintained in line with OHS requirements</p>
2. Prepare for timber treatment	<p>2.1. Pre start-up checks are carried out on equipment in line with site requirements</p> <p>2.2. Timber supply to the treatment process is monitored and maintained</p> <p>2.3. Water requirements are identified and checked in line with organisational procedures and environmental requirements</p> <p>2.4. Moisture content of timber is tested in line with organisational procedures</p> <p>2.5. Preservative solution strength is checked and maintained for specified strength and volume in line with environmental requirements</p> <p>2.6. Treated timber is safely handled and transferred to storage location</p> <p>2.7. Timber treatment preparation processes and equipment faults are recorded and reported to the appropriate personnel</p> <p>2.8. Chemicals are handled and stored in line with regulatory and environmental requirements, and stock levels reported</p> <p>2.9. Treating area is kept clear of dust, shavings and debris in line with OHS requirements</p>

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 tools, machinery and equipment; efficiently and safely prepare for timber treatment operations
- Communication skills and interpersonal techniques sufficient to interact appropriately with colleagues and others in the workplace
- Literacy skills sufficient to accurately locate, record and report information
- Numeracy skills sufficient to estimate, measure and calculate time required to complete a task
- Problem solving skills sufficient to review and accurately identify work requirements; identify problems and equipment faults and 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 preparing for timber treatment operations
- Environmental protection requirements, including the safe disposal of waste material, the safe use and storage of chemicals, minimising carbon emissions and the cleaning of plant, tools and equipment
- Organisational and site standards, requirements, policies and procedures for preparing for timber treatment operations
- Environmental risks and hazards
- Timber treating procedures
- Handling of treated products and chemicals
- Methods of visual inspection
- Characteristics of timber and chemicals
- Storage systems and labelling
- 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 prepare for timber treatment operations 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 preparing for timber treatment operations
- following organisational policies and procedures relevant to preparing for timber treatment operations
- preparing for timber treatment operations in readiness for storage and processing

Context of and specific resources for assessment

- 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

EVIDENCE GUIDE

- 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. **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:

- personal protective equipment and clothing

RANGE STATEMENT

- 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
- machine isolation and guarding
- legislation
- organisational policies and procedures
- workplace practices

Environmental requirements
may include:

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 and maintenance and storage

RANGE STATEMENT

requirements

- environmental management requirements (waste minimisation and disposal, recycling and re-use guidelines)
- instructions for the preparation of timber treatment operations

Work order is to include:

and may include:

- timber supplies
- chemical supplies
- equipment set up
- 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

Timber may include:

- native timber species
- imported timber species
- dressed timber
- in-the-rough timber
- stress and non-stress graded timber
- sleepers
- logs
- rounded poles
- beams
- laminated beams

Treating

- is the process of impregnating preservative solution filled with chemicals in to the timber to provide it with a durable resistance to weather and insect attack

and may include:

- full cell
- modified cell
- empty cell
- double vacuum
- dip diffusion
- vat and sprays

RANGE STATEMENT

- other processes developed by the enterprise and is to include:

Chemicals may include:

- handling techniques for products and chemicals in line with OHS regulations and environmental laws
- those specified by the enterprise and that follow regulatory requirements

and may include:

Storage locations may include:

- light organic solvents
- storage racks
- storage bays
- bins
- stacks
- 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:

- treaters
- vats
- ovens
- resin tanks
- effluent tanks

and is to include:

- procedures for equipment lock-out such as protecting operators and co-workers from accidental injury by isolating the machine from the power source

Communication may include:

- verbal and non-verbal language
- constructive feedback

RANGE STATEMENT

- 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
- body language

Pre start-up checks

are conducted to ensure:

- equipment has been set-up correctly
- systems are performing accurately and operating to optimum performance

Water may include:

- stormwater
- contaminated water
- bore water
- recycled dam water
- town mains water

Moisture content

- is the amount of moisture maintained in timber or timber products after kiln drying or to avoid cracking and deforming
- in Australia generally ranges between 10% in warmer, more humid climates to 14% in cooler climates

Preservative solution may include:

- water-borne solutions
- oil-based solutions
- solvent-based solutions

Records and reports may include:

- treatment preparation requirements
- charge records
- product type
- size
- inspection
- grading outcomes
- storage locations
- quality outcomes
- hazards
- incidents
- equipment malfunctions

and may be:

- manual

RANGE STATEMENT

- using a computer-based system or other appropriate organisational communication system

Unit Sector(s)

Unit sector No sector assigned

Co-requisite units

Co-requisite units

Competency field

Competency field Sawmilling and Processing