



Australian Government

Department of Education, Employment and Workplace Relations

FPIWPP3223B Immunise veneer

Release: 1

FPIWPP3223B Immunise veneer

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit describes the outcomes required to plan for the immunisation process, prepare the chemicals, treat the veneer to protect it against insect attack and pack the veneer

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 FPIWPP3223A Immunise veneer

Application of the Unit

Application of the unit

The unit involves immunising veneer 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. Prepare for immunisation	1.1. Applicable Occupational Health and Safety (OHS), environmental, legislative and organisational requirements relevant to immunising veneer are identified and followed 1.2. Work order is reviewed and checked with appropriate personnel 1.3. Type and quantity of veneer to be immunised is assessed and acquired from the storage location 1.4. Equipment is selected appropriate to work requirements and checked for operational effectiveness in line with manufacturer's recommendations 1.5. Immunising process is planned in line with site procedures 1.6. Communication with others is established and maintained in line with OHS requirements
2. Immunise veneer	2.1. Type and quantity of chemicals and solutions is acquired from planned treatment cycles and prepared 2.2. Ancillary equipment used for addition of solution chemicals is operated in line with operating procedures 2.3. Samples of solution are regularly taken for testing in line with standard operating procedures 2.4. Load and unload cycles are planned to provide selected treatment and drainage time for veneer 2.5. Veneer is loaded and unloaded from solution tanks in line with operating procedures 2.6. Transfer equipment is operated to shift veneer and visual assessment of treated veneer undertaken to establish modifications to treatment process 2.7. Drainage of treated veneer is monitored to ensure even drying 2.8. Dried veneer panels are packed and marked in line with standard operating procedures 2.9. Veneer panels where the immunisation process has failed are rejected and disposed of in line with site procedures and environmental requirements 2.10. Veneer immunising process and equipment faults are recorded and reported to the appropriate personnel
3. Clean up and store	3.1. Veneer immunisation clean up procedures are

ELEMENT**PERFORMANCE CRITERIA**

chemicals

followed in line with OHS legislation and site procedures

3.2. Treating mechanisms are checked for effective condition

3.3. Treatment area is kept clear of dust, shavings and debris in line with OHS requirements

3.4. Chemicals and solutions are stored in line with statutory requirements

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 immunise veneer
- Communication skills and interpersonal techniques sufficient to interact appropriately with colleagues and others in the workplace
- Literacy skills sufficient to accurately record and report workplace information, and maintain documentation
- Numeracy skills sufficient to estimate, measure and calculate time required to complete a task
- Problem solving skills sufficient to 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 immunising veneer
- Environmental protection requirements, including the safe disposal of waste material, the safe use and storage of chemicals, and the cleaning of plant, tools and equipment
- Organisational and site standards, requirements, policies and procedures for immunising veneer
- Environmental risks and hazards
- Veneer immunising techniques
- Methods of visual inspection
- Characteristics of veneer, chemicals and chemical solutions

REQUIRED SKILLS AND KNOWLEDGE

- 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 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 immunise veneer 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 immunising veneer
- following organisational policies and procedures relevant to immunising veneer
- immunising veneer in readiness for storage and/or 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
- Assessment must be by direct observation of tasks,

EVIDENCE GUIDE

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:

- personal protective equipment and clothing
- safety equipment

RANGE STATEMENT

	• 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 and maintenance and storage requirements • environmental management requirements

RANGE STATEMENT

(waste minimisation and disposal, recycling and re-use guidelines)

Work order is to include:

- instructions for veneer immunising

and may include:

- treating method
- colour
- type
- width
- length
- thickness
- 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

Veneer

- is the thin sheet of timber (varying in thickness to suit organisational or customer specifications) used to produce the layers of plywood
- types are usually referred to as quarter sawn, back sawn and radial (or rotary) sawn

Immunising

is the process of dipping veneer in solution tanks filled with chemical solutions designed to penetrate the veneer, kill any existing insects and prevent any further insect attack which may affect the visual appearance of the veneer

Storage locations may include:

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

and may be divided into:

RANGE STATEMENT

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

Equipment may include:

- chemical solution tanks
- chemical mixing and transfer equipment
- veneer transfer equipment

and is to include:

- procedures for equipment lock-out, ie 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
- 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

Chemicals may include:

- insecticides
- solvents
- preservative oils
- waterborne preservatives

Solutions

are the mix of chemicals to achieve enterprise, customer requirements and/or regulations

Testing

is conducted to ensure the chemical solution is still as specified

Cycle

is the process of immunising veneer from start to finish with one batch of veneer and then commencing a new cycle

RANGE STATEMENT

Solution tanks

are large tanks filled with chemical solution that veneer is transferred to and held suspended in, for the specified time to allow the chemicals to impregnate the veneer

Transfer equipment may include:

the use of:

- conveyor belt systems
- track systems
- lifting equipment such as:
 - fork lifts
 - slings
 - trolley jacks
 - gantry cranes
 - loaders
- assistance with lifting such as:
 - the involvement of two or more personnel to lift materials manually or to guide the movement of mechanical equipment

Visual assessment

is the assessment of veneer to determine finish quality and faults

Marking may include:

- batch number
- treatment type
- client identification
- destination
- address
- contents
- special instructions
- handling instructions

Disposing of may include:

- recycling veneer panels where the immunisation process has failed
- re-using veneer panels where the immunisation process has failed

Records and reports may include:

- treating requirements
- product type
- size
- inspection
- grading and labelling outcomes
- storage locations
- quality outcomes
- hazards

RANGE STATEMENT

- incidents
- equipment malfunctions

and may be:

- manual

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 Wood Panel Products