



Australian Government

Department of Education, Employment and Workplace Relations

FPISAW3202B Produce sawn green boards

Release: 1

FPISAW3202B Produce sawn green boards

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit describes the outcomes required to prepare and re-saw material to width and on the cant with sawing machinery to optimise timber conversion and usability. The unit includes operator maintenance

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 FPISAW3202A Produce sawn green boards

Application of the Unit

Application of the unit

The unit involves producing sawn green boards 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 conversion	1.1. Applicable Occupational Health and Safety (OHS), environmental, legislative and organisational requirements relevant to producing sawn green boards are identified and followed 1.2. Work order is reviewed and checked with appropriate personnel 1.3. Type and quantity of material to be cut for green boards are 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. Timber conversion and saw set-up are planned in line with site procedures 1.6. Communication with others is established and maintained in line with OHS requirements
2. Produce green boards	2.1. Pre start-up checks are carried out on equipment in line with site requirements 2.2. Saw, carriage and feed are set, regularly checked and adjusted to suit conversion plan, ordered sizes and tolerances 2.3. Timber supply is monitored to ensure constant supply to the saw 2.4. Saw bench is operated to optimise the production of green boards without damage to boards or saw blade and feed rate maintained 2.5. Material with defects, incorrect cuts and off-cuts are disposed of in line with site procedures and environmental requirements 2.6. Processing and equipment faults are recorded and reported to the appropriate personnel 2.7. Material is safely stacked in a designated location in line with work order requirements
3. Conduct operator maintenance	3.1. Equipment lock-out procedures are followed in line with OHS legislation and site procedures 3.2. Saw and saw blades are checked for blunt or damaged condition in line with site procedures 3.3. Blunt or damaged saws are dealt with in line with site procedures, manufacturer's recommendations and environmental requirements 3.4. Saw area is kept clear of dust, off-cuts and debris in

ELEMENT**PERFORMANCE CRITERIA**

line with OHS 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

- Efficiently and safely convert timber
- Technical skills sufficient to use and maintain relevant tools, machinery and equipment; accurately identify blunt or damaged blades
- 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 producing sawn green boards
- Environmental protection requirements, including the safe disposal of waste material, minimising carbon emissions and the cleaning of plant, tools and equipment
- Organisational and site standards, requirements, policies and procedures for producing sawn green boards
- Environmental risks and hazards
- Characteristics of green timber and timber defects
- Cutting patterns and sequences
- Saw feed rates
- Saw blade condition assessment
- Industry standard cross-sections and lengths
- Storage systems and labelling
- Established communication channels and protocols
- Problem identification and resolution strategies and common fault finding techniques

REQUIRED SKILLS AND KNOWLEDGE

- 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 produce sawn green boards within 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 producing sawn green boards
- following organisational policies and procedures relevant to producing sawn green boards
- producing sawn green boards in line with the work order and within prescribed organisational tolerances
- conducting operator maintenance on an automatic feed controlled rip saw
- stacking batches of cut material in line with organisational requirements and OHS regulations

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

EVIDENCE GUIDE

- 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, 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,

RANGE STATEMENT

State or Territory legislation and regulations, and organisational safety policies and procedures, and may include:

- 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
- 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

RANGE STATEMENT

- OHS, emergency and evacuation procedures
- ethical standards
- recording and reporting requirements
- equipment use and maintenance and storage requirements
- environmental management requirements (waste minimisation and disposal, recycling and re-use guidelines)

Timber conversion

is the process of producing boards by re-sawing green flitches or cants to optimise single boards maximising the amount of boards per flitch or cant

Work order is to include:

- instructions for the cutting and despatch of green timber boards from the work site

and may include:

- type
- size
- width
- angle
- quantity
- grade
- 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

Material may include:

- hardwood
- softwood
- native timber species
- imported timber species

Green boards

- are those which are still in the rough (not dressed) and have not been seasoned, having just been converted from green timber
- moisture content is yet to be controlled through air drying or kiln drying

Storage locations may include:

- storage racks

RANGE STATEMENT

- 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:

- measuring equipment
- power operated, automatic feed controlled ripping saws where the cut is controlled relative to the board guides and fence
- saws with adjustable cant (sloping table)
- saws with one blade
- rip saws
- table saws
- bench saws

and is to include:

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

Saw set-up is to include:

- setting depth
- width and cant of cut measured from the fence in line with product order and allowing for kerf (width of saw cut)

Communication may include:

- verbal and non-verbal language
- constructive feedback
- active listening
- questioning to clarify and confirm understanding

RANGE STATEMENT

- 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

Ordered sizes may include:

- a range of sizes cut to widths usually increasing in 5 mm increments

Tolerances

are a set limit for cutting over or under the required width within a set margin of acceptance usually + or - 0.5 mm or in line with order or organisational requirements

Feed rate is to include:

- rate of speed the material is passed through the machine affecting the sharpness of the cutting blades
- finish of the material
- production output

Defects may include:

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

Disposing of may include:

- recycling material with defects, incorrect cuts and off-cuts
- re-using material with defects, incorrect cuts and off-cuts

Records and reports may include:

- product type
- size
- width
- cant
- inspection
- grading and labelling outcomes
- storage locations
- quality outcomes

RANGE STATEMENT

- hazards
- incidents
- equipment malfunctions

and may be:

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

Stacking may include:

- preparing for transport
- categorising in common size, length, width and cant
- marking lots in line with work order and site requirements
- locating so as not to block access or passage

Dealing with may include:

- repair of damaged saws and blunt or damaged saw blades
- disposing of saws and saw blades that cannot be repaired

Unit Sector(s)

Unit sector

No sector assigned

Co-requisite units

Co-requisite units

Competency field

Competency field Sawmilling and Processing