



Australian Government

Department of Education, Employment and Workplace Relations

FPISAW3204B Saw flitches and cants

Release: 1

FPISAW3204B Saw flitches and cants

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit describes the outcomes required to prepare log sections for sawing into flitches and cants, and includes the set up process and maintaining the production flow

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 FPISAW3204A Saw flitches and cants

Application of the Unit

Application of the unit

The unit involves sawing flitches and cants 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 sawing	1.1. Applicable Occupational Health and Safety (OHS), environmental, legislative and organisational requirements relevant to sawing flitches and cants are identified and followed 1.2. Work order is reviewed and checked with appropriate personnel 1.3. Equipment is selected appropriate to work requirements and checked for operational effectiveness in line with manufacturer's recommendations 1.4. Sawing process is planned in line with site procedures and to optimise volume and quality of recovery 1.5. Communication with others is established and maintained in line with OHS requirements
2. Saw flitches and cants	2.1. Pre start-up checks are carried out on equipment in line with site requirements 2.2. When necessary, log sections are secured with dogs minimising damage and aligned with the saw 2.3. Log sections are cleared of foreign matter and fed into the saw at the feed rate prescribed by organisational requirements 2.4. Sawing sequence is planned, maintained and adjusted to produce the required quantity of flitches or cants and to maximise the feed rate 2.5. Sawing process is regularly checked and adjusted to maintain the desired quality and output 2.6. Log sections with defects and sawn edges are segregated or rejected and disposed of in line with site procedures and environmental requirements 2.7. Sawing process and equipment faults are recorded and reported to the appropriate personnel 2.8. Flitches or cants are safely directed to storage 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 and saw blades are dealt with in line with site procedures, manufacturer's

ELEMENT**PERFORMANCE CRITERIA**

- recommendations and environmental requirements
- 3.4. Machine area is kept clear of dust and debris in 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

- Technical skills sufficient to use and maintain relevant tools, machinery and equipment; accurately identify blunt or damaged saws; efficiently and safely saw flitches and cants
- 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 sawing flitches and cants
- 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 sawing flitches and cants
- Environmental risks and hazards
- Flitch and cant sawing systems
- Characteristics of timber and timber defects
- Sawing processes, feed rates and finish
- Blade condition assessment
- Storage systems and labelling
- Established communication channels and protocols
- Problem identification and resolution strategies and common fault finding

REQUIRED SKILLS AND KNOWLEDGE

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 saw flitches and cants 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 sawing flitches and cants
- following organisational policies and procedures relevant to sawing flitches and cants
- sawing log sections to produce flitches and cants in line with the work order and within prescribed organisational specifications
- conducting operator maintenance on saw machinery
- 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
- 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
- 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

Organisational requirements
may include:

RANGE STATEMENT

- equipment use and maintenance and storage requirements
- environmental management requirements (waste minimisation and disposal, recycling and re-use guidelines)

Flitch

is a large piece of sawn log section cut longitudinally, sawn on at least two surfaces at ninety degrees and intended for further cutting

Cant

is a thick piece of timber with two or more surfaces cut longitudinally on the angle (obliquely) sawn from a log section and intended for further sawing

Work order is to include:

- instructions for the sawing logs and despatch of flitches or cants from the work site to down-stream processing

and may include:

- treating
- species
- size
- length
- 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

Equipment may include:

- circular saws
- bench saws
- overhead frame saws or band saws (single, twin, single edges and twin edges)
- mechanical feed
- conveyors
- standard three headed dog carriages
- flat top carriages with head rigs

RANGE STATEMENT

and is to include:

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

Optimising includes:

- planning the cutting of a log to achieve the most from it
- ensuring environmental requirements are central to this planning process

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

Pre start-up checks

are conducted to ensure:

- saw has been set-up correctly
- blades are installed accurately
- machinery is operating to optimum performance

Log sections

are large sections and lengths of timber available for further processing as a result of breaking down logs

Dogs

- are the carriage devices which support logs during break down

Feed rate is to include:

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

Defects may include:

- defects arising from a change in moisture content
- warp
- wane
- curvature

RANGE STATEMENT

- shakes
 - insect defects
 - knots and resin pockets
 - sweep
 - taper
 - end splits
 - shape
- Disposing of** may include:
- recycling timber sections with defects and sawn edges
 - re-using timber sections with defects and sawn edges
- Records and reports** may include:
- the sawing procedures
 - product type
 - size
 - inspection
 - grading and labelling outcomes
 - storage locations
 - quality outcomes
 - hazards
 - incidents
 - equipment malfunctions
- and may be:
- manual
 - using a computer-based system other appropriate organisational communication system
- 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