FPISAW4202B Plan and monitor saw log operations

Release: 1

FPISAW4202B Plan and monitor saw log operations

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit describes the outcomes required to plan flitch, cant sizes and cutting patterns, to coordinate sawing processes and monitor equipment and output
	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 FPISAW4202A Plan and monitor saw log operations

Application of the Unit

Application of the unit	The unit involves planning and monitoring saw log 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 saw log operations	1.1. Applicable *Occupational Health and Safety* (OHS), *environmental*, *legislative* and *organisational requirements* relevant to planning and monitoring saw log operations are identified and followed
	1.2. Variations in timber characteristics are assessed, recorded and reported to *sawyers*
	1.3. *Timber cutting* schedules are produced and applied in line with site procedures
	1.4. *Log management* procedures, including order information, are planned, scheduled and communicated to sawyers
	1.5. *Cutting patterns* are planned and prescribed in line with environmental requirements
	1.6. *Communication* with others is established and maintained in line with OHS requirements
2. Monitor saw log performance	2.1. Standard cutting patterns are reviewed for suitability to planned cutting schedules
	2.2. Timber cutting processes are monitored for effectiveness of cutting pattern and condition of timber
	2.3. Assistance is provided to sawyers with the evaluation of logs and sawing problems
	2.4. Saw log management and *output* are monitored to record possible process improvements
	2.5. Saw log operations, major problems and equipment faults are investigated and *recorded and reported* in line with site requirements
3. Coordinate saw log operations	3.1. Cutting operations and output are monitored to record and action possible process improvements based on cutting patterns, timber being processed and environmental requirements
	3.2. Modifications are made to cutting patterns or schedules to ensure optimum performance and communicated to operators
	3.3. Cutting improvement modifications are documented and communicated in line with site procedures and environmental requirements
	3.4. Cutting output details are obtained and recorded in line with site requirements
	3.5. Cut timber is directed to *storage* or *transferred* for further processing

ELEMENT	PERFORMANCE CRITERIA
	3.6. Operating logs and cutting records are completed and maintained to site standards

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 assess, schedule and apply saw log operations; monitor saw log performance and modify operations as required; efficiently and safely plan and monitor saw log operations
- 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 demonstrate appropriate response procedures to major problems and equipment faults

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 planning and monitoring saw log operations
- 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 planning and monitoring saw log operations
- Environmental risks and hazards
- Using energy effectively and efficiently
- Using material effectively and efficiently
- Log sawing procedures and management
- Cutting pattern methodologies
- Cutting sequences
- 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

REQUIRED SKILLS AND KNOWLEDGE

maintenance

- Appropriate mathematical procedures for estimating and measuring, including calculating time to complete tasks
- Procedures for recording and reporting workplace information

     Forestworks Learning and Skill Development

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 plan and monitor saw log 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 planning and monitoring saw log operations • following organisational policies and procedures relevant to planning and monitoring saw log operations • planning and monitoring of saw log operations for the enterprise • modifying cutting patterns and schedules for saw log operations within the enterprise • coordinating personnel to follow planning, communications and scheduling for saw log operations

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

EVIDENCE GUIDE

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, 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.

RANGE STATEMENT

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
- 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

RANGE STATEMENT

	processes and standards
	• 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)
Sawyers	are the operators who use the saws to saw logs
Timber cutting	is the process of converting logs into flitches or cants following prescribed cutting patterns
Log management is to include:	• assessing individual logs for the most suitable cutting sequence and pattern
	• assessing which type of flitches or cants can be cut from the log
	• handling of the log
Cutting patterns	is the way in which the log is cut up to achieve the output of flitches or cants planned for that log
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
Output	is the size, quality and quantity of flitches or cants produced from a log
Records and reports may include:	• planning and monitoring outcomes
	• operating logs
	• cutting records
	• material movement
	• despatch outcomes
	• storage locations
	• quality outcomes

RANGE STATEMENT

	• hazards • incidents • equipment malfunctions and may be: • manual • using a computer-based system or another appropriate organisational communication system
Storage 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: • standard product classification • product designation • size • dimension • stack number • weight • grade • shelf life • stock rotation position
Transferral may include:	the use of: • conveyor belt systems • track systems • lifting equipment lifting equipment may include: • fork lifts • slings • trolley jacks • gantry cranes • loaders assistance with lifting may include: • the involvement of two or more personnel to

RANGE STATEMENT

> lift materials manually or to guide the
> movement of mechanical equipment

Unit Sector(s)

Unit sector   No sector assigned

Co-requisite units

Co-requisite units

Competency field

Competency field   Sawmilling and Processing