FPISAW2207B Round softwood logs

Release: 1

FPISAW2207B Round softwood logs

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit describes the outcomes required to round softwood logs to a set diameter. The unit includes assessing logs for diameter, species, faults and moisture content
	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 FPISAW2207A Round softwood logs

Application of the Unit

Application of the unit	The unit involves rounding softwood logs 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 rounding	1.1. Applicable *Occupational Health and Safety* (OHS), *environmental*, *legislative* and *organisational requirements* relevant to rounding softwood logs are identified and followed
	1.2. *Work order* is reviewed and checked with *appropriate personnel*
	1.3. Type and quantity of *logs* to be *rounded* are selected 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. Rounding process is planned in line with site procedures
	1.6. *Communication* with others is established and maintained in line with OHS requirements
2. Round logs	2.1. *Pre start-up checks* are carried out on equipment in line with site requirements
	2.2. *Scanner* is calibrated in line with site requirements
	2.3. Material is fed into the machine at the *feed rate* prescribed by organisational requirements
	2.4. Rounding process is maintained and adjusted to produce the required quantity of logs and to maximise the feed rate
	2.5. Rounding process and *conveyors* are regularly checked and adjusted to maintain the desired quality and output
	2.6. Logs with *defects* is segregated or rejected and *disposed of* in line with site procedures and environmental requirements
	2.7. Rounding process and equipment faults are *recorded and reported* to the appropriate personnel
	2.8. Rounded logs 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. Cutters are checked for blunt or damaged condition
	3.3. Blunt or damaged cutters are removed, replaced and *dealt with* in line with site procedures, manufacturer's recommendations and environmental

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ELEMENT	PERFORMANCE CRITERIA
	requirements
	3.4. Machine area is kept clear of dust and debris in line with OHS requirements
4. Complete handover	4.1. Production and quality records are completed and printed in line with standard operating procedures
	4.2. *Back-up files* are created in line with standard operating procedures
	4.3. Documentation is handed over to changeover operator and briefing of operations conducted

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level required for this unit

Required skills

- The ability to comply with legislation, regulations, standards, codes of practice and established safe practices and procedures related to rounding softwood logs
- Technical skills sufficient to use and maintain relevant tools, machinery and equipment; efficiently and safely round softwood logs
- Communication skills and interpersonal techniques sufficient to interact appropriately with colleagues and others in the workplace
- Literacy skills sufficient to procedures for recording and reporting workplace information
- Numeracy skills sufficient to estimate, measure and calculate diameters, machine settings and calibrations and 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 to round softwood timber
- 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 rounding softwood logs

REQUIRED SKILLS AND KNOWLEDGE

- Environmental risks and hazards
- Log rounding systems, processes, feed rates and finish
- Characteristics of timber and timber defects
- Cutter condition assessment
- 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 round softwood logs 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:
	• follow applicable Commonwealth, State or Territory legislative and regulatory requirements and codes of practice relevant to rounding softwood logs
	• follow organisational policies and procedures relevant to rounding softwood logs
	• rounding softwood logs in line with the work order and within prescribed organisational specifications
	• conducting operator maintenance on rounding plant
	• storing poles 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
	• 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
	- manual handling including shifting, lifting and carrying
	- machine isolation and guarding
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

RANGE STATEMENT

	• environmental management requirements (waste minimisation and disposal, recycling and re-use guidelines)

Work order is to include:

- instructions for the rounding of logs and despatch of logs from the work site to down-stream processing

and may include:

- treating
- species
- diameter
- length
- quantity
- grade

and may also include:

- 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

Logs is to include:

assessment of:

- diameter range
- curvature
- faults
- species
- moisture content

Rounding

is the process of forcing a log through a rounding machine which shapes the debarked log into a round pole, making the pole available for further down-stream processing and out-feeding the waste for landscaping supplies

Storage locations may include:

- storage racks
- storage bays
- bins
- stacks
- pallet boxes

RANGE STATEMENT

	• 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 is to include:	• measuring equipment • rounding plant and may include: • automated storage-conveyor systems • automated diameter and length sorting systems 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
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: • rounding plant has been set-up correctly • cutters are installed accurately • machinery is operating to optimum

RANGE STATEMENT

	performance

Scanner is to include:	• calibration for sizing
	• problem identification such as:
	   • tangles
	   • sorting pockets
	   • monitor failure

Feed rate is to include:	• rate of speed the material is passed through the machine affecting the sharpness of the cutters • finish of the material • production output
Conveyors are to include:	• belts, chutes or travelator methods of transporting logs to and from the rounding plant, which may be automated in conjunction with the log storage area
Defects may include:	• incorrect moisture content • warp • wane • curvature • shakes • insect defects • knots • resin pockets
Disposing of may include:	• recycling rejected timber • re-using rejected timber
Recorded and reported may include:	• the rounding system • 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 or other appropriate organisational communication system

RANGE STATEMENT

Dealing with may include:	• repairing blunt or damaged cutters • disposing of blunt or damaged cutters that cannot be repaired
Back-up file	is the process of copying operating documents and records onto a computer back-up device which is subsequently removed from the site

Unit Sector(s)

Unit sector   No sector assigned

Co-requisite units

Co-requisite units

Competency field

Competency field   Sawmilling and Processing