FPIC4006A Coordinate log debarking operations

Unit Descriptor
This unit specifies the outcomes required to coordinate log debarking operations to control systems for quality output and monitor equipment performance.

Pre-requisite Unit(s)
FPICOR4001A Monitor SH&E policies and procedures

Application of the Unit
Competency Field
Forest and Forest Products
Sector
Common Technical

ELEMENT
PERFORMANCE CRITERIA

Elements describe the essential outcomes of a unit of competency

1. Plan debarking operations
   1.1 Applicable OH&S, legislative and organisational requirements relevant to the coordination of log debarking operations are verified and complied with
   1.2 Variations in timber characteristics are assessed, recorded and reported to operators
   1.3 Debarking schedules are produced and applied in accordance with site procedures
   1.4 Log management procedures including order information are planned, scheduled and communicated to sawyers
   1.5 Diameters and lengths are planned and prescribed
   1.6 Communication with others is established and maintained in accordance with OH&S requirements

2. Monitor debarking performance
   2.1 Standard diameters and lengths are reviewed for suitability to planned debarking schedules
   2.2 Debarking processes are monitored for accuracy of diameter and condition of debarked logs
   2.3 Assistance is provided to operators with the evaluation of logs and debarking problems
   2.4 Log management and output is monitored to record possible process improvements
   2.5 Debarking operations, major problems and equipment faults are investigated, recorded and reported
3 Coordinate debarking operations

3.1 Debarking operations and output are monitored to record and action possible process improvements based on diameters, lengths and logs being processed

3.2 Modifications are made to diameters or schedules to ensure optimum performance and communicated to operators

3.3 Debarking improvement modifications are documented and communicated in accordance with site procedures

3.4 Debarked log output details are obtained and recorded in accordance with site requirements

3.5 Debarked logs are directed to storage or transferred for further processing

3.6 Operating logs and processing records are completed and maintained to site standards

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills include:

- Comply with legislation, regulations, standards, codes of practice and established safe practices and procedures for coordinating log debarking operations
- Use and maintain relevant tools, machinery and equipment
- Identify problems and equipment faults and demonstrate appropriate response procedures
- Use appropriate communication and interpersonal techniques with colleagues and others
- Accurately record and maintain information relating to coordinating log debarking operations
- Efficiently and safely coordinate log debarking operations

Required knowledge and understanding include:

- State/Territory OH&S legislation, regulations, standards and codes of practice relevant to the full range of processes for coordinating log debarking operations
- Organisational and site standards, requirements, policies and procedures for coordinating log debarking operations
- Environmental protection requirements relating to the disposal of waste material
- Established communication channels and protocols
• Problem identification and resolution
• Types of tools and equipment and procedures for their use, operation and maintenance
• Log debarking procedures and management
• Standard diameters and lengths
• Log management
• Procedures for the recording, reporting and maintenance of workplace records and information
• Appropriate mathematical procedures for estimation and measurement

KEY COMPETENCIES

The seven key competencies represent generic skills considered necessary for effective participation by an individual in the workplace
Performance Level 1 – at this level, the candidate is required to undertake tasks effectively
Performance Level 2 – at this level, the candidate is required to manage tasks
Performance Level 3 – at this level, the candidate is required to use concepts for evaluating and reshaping tasks

<table>
<thead>
<tr>
<th>Key Competency</th>
<th>Example of Application</th>
<th>Performance Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>How are ideas and information communicated within this competency?</td>
<td>Ideas and information, verbal and written, are communicated in simple English to confirm work requirements, convey information and requests to colleagues, and report and record outcomes for coordinating log debarking operations</td>
<td>2</td>
</tr>
<tr>
<td>How can information be collected, analysed and organised?</td>
<td>Collect, organise, interpret and understand information required to undertake coordinating log debarking operations</td>
<td>2</td>
</tr>
<tr>
<td>How are activities planned and organised?</td>
<td>Organise and conduct work task activities in the correct sequence for coordinating log debarking operations to be completed within the designated timeframes</td>
<td>2</td>
</tr>
<tr>
<td>How is team work used within this competency?</td>
<td>Effective communication and interpersonal techniques are used with colleagues and others to maximise confidence, satisfaction and productivity during the process of coordinating log debarking operations</td>
<td>2</td>
</tr>
</tbody>
</table>
How are mathematical ideas and techniques used?
Mathematical ideas and techniques are used to calculate time to complete tasks and to estimate tools, equipment and material requirements including calculating quantities, time allocations, diameters and lengths
1

How are problem solving skills applied?
Establish safe and effective processes for coordinating log debarking operations which anticipate likely problems to avoid wastage and downtime
2

How is use of technology applied?
Select and use computer equipment to assist in coordinating log debarking operations
1

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 in the Performance Criteria is detailed below. Add any 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.

OH&S requirements
- are to be in accordance with Commonwealth, State or Territory legislation and regulations, organisational safety policies and procedures. Requirements may include but not be limited to the use of personal protective equipment and clothing, fire fighting equipment, first aid equipment, hazard and risk control and elimination of hazardous materials and substances, manual handling including lifting and carrying, safe forest practices, and machine isolation and guarding

Legislative requirements
- are to be in accordance with applicable legislation from all levels of government that affect organisational operation. Requirements may include but not be limited to award and enterprise agreements, industrial relations, Australian Standards, confidentiality and privacy, OH&S, the environment, equal opportunity, anti-discrimination, relevant industry codes of practice, duty of care, and heritage and traditional land owners issues

Organisational requirements
- may include but not be limited to 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, OH&S, emergency and evacuation, ethical standards, recording and reporting, access and equity principles and practices, equipment use, maintenance and storage, environmental
Operators • are the personnel who operate the debarking plant and equipment to debark logs to prescribed diameters

Debarking • is the process of forcing a log through a debarking machine which strips the log bare of its bark, making the log available for further down-stream processing and out-feeding the bark for landscaping supplies

Log management • is to include assessing individual logs to include assessment of diameter range, curvature, faults, species and moisture content and includes handling of the log

Diameters and lengths • are to include standard diameters and lengths that the debarking equipment can strip before becoming jammed or shuddering

Communication • may include schedules, verbal and non-verbal language, constructive feedback, active listening, questioning to clarify and confirm understanding, use of positive, confident and co-operative language, use of language and concepts appropriate to individual social and cultural differences, control of tone of voice and body language

Output • is to include the size, quality and quantity of debarked logs produced

Records and reports • may include but not be limited to planning and monitoring outcomes, operating logs, debarking records, material movement, despatch outcomes, storage locations, quality outcomes, hazards, incidents or equipment malfunctions

Storage • may include but not be limited to 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 or stock rotation position

Transferral • may include but not be limited to the use of conveyor belt systems, track systems or lifting equipment

• lifting equipment may include but not be limited to fork lifts, slings, trolley jacks, gantry cranes and loaders

• assistance with lifting may include the involvement of two or more personnel to lift materials manually or to guide the movement of mechanical equipment

management (waste disposal, recycling and re-use guidelines)
EVIDENCE GUIDE

The Evidence Guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for this Training Package.

Overview of assessment

- A person who demonstrates competency in this standard must be able to provide evidence that they can safely and efficiently coordinate log debarking operations according to organisational requirements.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

- Comply with legislation, regulations, standards, codes of practice and established safe practices and procedures for coordinating log debarking operations.
- Communicate effectively and work safely with others in the work area.
- Efficiently coordinate log debarking operations for the enterprise.
- Effectively modify debarking diameters and schedules for debarking operations within the enterprise.
- Effectively coordinate personnel to follow planning, communications and scheduling for log debarking operations.

Context of, and specific resources for assessment

- The application of 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 essential underpinning knowledge, other than confirmatory questions, will usually be conducted in an off-site context.
- Assessment is to comply with relevant regulatory or Australian Standards requirements.
- The following resources should be made available:
  - workplace location or simulated workplace
  - materials and equipment relevant to coordinating log debarking operations
  - specifications and work instructions

Method of assessment

- Assessment must satisfy the endorsed assessment guidelines of the Forest and Forest Products Industry 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 underpinning knowledge

- Assessment must be by direct observation of tasks, with questioning on underpinning knowledge and it must also reinforce the integration of key competencies
- Assessment methods must confirm the ability to access and correctly interpret and apply the essential underpinning 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, including those listed above