



Australian Government

Department of Education, Employment and Workplace Relations

FPICOT3205B Dress boards using multi-headed machines

Release: 1

FPICOT3205B Dress boards using multi-headed machines

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit describes the outcomes required to plan and conduct a board dressing process using multi-headed machines. It requires an ability to plan and evaluate dressing conditions and processes and to set, adjust and maintain cutters and equipment

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 FPICOT3205A Dress boards using multi-headed machines

Application of the Unit

Application of the unit

The unit involves dressing boards using multi-headed machines 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

Not Applicable

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 dressing process	<p>1.1. Applicable <i>occupational health and safety</i> (OHS), <i>environmental</i>, <i>legislative</i> and <i>organisational requirements</i> relevant to dressing boards using multi-headed machines are identified and followed</p> <p>1.2. Dressed <i>board requirements</i> are identified and selected from work orders, schedules and site procedures in line with job requirements</p> <p>1.3. Available sawn <i>boards are assessed</i> and material removal rates estimated in line with site procedures</p> <p>1.4. <i>Equipment</i> is selected, checked, adjusted where necessary and started in line with manufacturer's recommendations and site procedures</p> <p>1.5. Volume <i>recovery</i> and efficient use of equipment are maximised through equipment use and workplace practices, in line with site standards</p> <p>1.6. <i>Communication</i> with others is established and maintained in line with OHS requirements</p>
2. Set cutters and dress boards	<p>2.1. <i>Pre-startup checks</i> are carried out on equipment in line with site requirements</p> <p>2.2. Cutters, feeders, guides and conveyors are selected, checked, prepared and set to suit required dressed product dimensions and available sawn material</p> <p>2.3. Dressing operation and processing sizes are planned in line with site procedures</p> <p>2.4. <i>Trial boards</i> are dressed, by operating dressing equipment checked and equipment adjusted to correct faults in line with site standards</p> <p>2.5. Trial boards that achieve the desired dimensions within tolerances are added to the process</p> <p>2.6. Trial boards that do not achieve the desired dimensions within tolerances are <i>disposed of</i> in line with site procedures and environmental requirements</p> <p>2.7. <i>Dressing conditions</i> are commenced, regularly assessed and adjusted to ensure product quality and sizing, continuity of supply and processing in line with site standards</p> <p>2.8. Dressing <i>feed rate</i> and finish are evaluated to determine board size, material removal, timber species and condition in line with site standards</p> <p>2.9. Sub-standard boards are disposed of in line with site procedures and environmental requirements</p>

ELEMENT	PERFORMANCE CRITERIA
3. Conduct operator maintenance	<p>2.10. <i>Records and reports</i> are accurately completed, processed and maintained in line with workplace procedures</p> <p>3.1. Equipment lock-out procedures are followed in line with OHS legislation and site procedures</p> <p>3.2. <i>Cutter</i> is checked for blunt or damaged condition in line with site procedures</p> <p>3.3. Blunt or damaged cutter is identified and <i>dealt with</i> in line with site procedures, manufacturer's recommendations and environmental requirements</p> <p>3.4. Machine area is kept clear of dust and debris in line with OHS and environmental requirements</p>

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 cutters, tools, machinery and equipment, including to carry out lock-out procedures; efficiently and safely plan, set and operate materials and equipment for a board dressing operation
- Communication skills sufficient to use appropriate communication and interpersonal techniques with colleagues and others
- Literacy skills sufficient to record and report workplace information; maintain documentation
- Numeracy skills sufficient to apply mathematical processes to measure finished dimensions and profiles with accuracy appropriate to tolerances
- Problem solving skills sufficient to identify problems and equipment faults; 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 dressing boards using multi-headed machines
- Environmental protection requirements, including the safe disposal of waste material (including preservative treated timber), the minimisation of carbon emissions, and the cleaning of plant, tools and equipment
- Organisational and site standards, requirements, policies and procedures for dressing boards using multi-headed machines

REQUIRED SKILLS AND KNOWLEDGE

- Environmental risks and hazards
- Criteria for recycling and re-using trial boards that do not achieve the desired dimensions within tolerances/sub-standard boards
- Using energy effectively and efficiently
- Types of cutters, tools and equipment, and procedures for their safe use and maintenance
- Typical timber defects and dressing problems which require action to be taken
- Industry standard cross section and length dimensions, profiles, tolerances, terminology and their application
- Dressing techniques and material removal rates and quantities relevant to available equipment
- Established communication channels and protocols
- Problem identification and resolution strategies, and common fault finding techniques
- 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 dress boards, and set cutters and maintain equipment in line with site procedures

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 dressing boards using multi-headed machines
- following organisational policies and procedures relevant to dressing boards using multi-headed machines
- planning for, evaluating and maintaining board dressing processes and conditions
- accurately setting, adjusting, operating and maintaining cutters and equipment to suit required dimensions, cutting sequence, feed rates and finish

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. **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
- manual handling including shifting, lifting and carrying
- 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
- OHS, emergency and evacuation procedures
- ethical standards

RANGE STATEMENT

- recording and reporting requirements
 - equipment use, maintenance and storage requirements
 - environmental management requirements (waste minimisation and disposal, recycling and re-use guidelines)
- Board requirements** may relate to:
- profile
 - cross section dimensions
 - lengths and quantities
 - selection
 - ordering of suitable sawn timber sizes
- Boards assessed** may include:
- species
 - size
 - defects
 - moisture content
 - sawn finish
 - type of preservative treatment
- Equipment** may include:
- single or multi-headed machines
 - machines cutting on one side of board only
 - machines cutting two or more sides of board simultaneously
 - machines incorporating grooving or splitting saws
- Recovery:**
- is the volume of timber dressed from a resource compared to the volume of that resource
 - is expressed as a percentage - $\text{sawn timber volume} / \text{initial log volume} \times 100$
 - maximises the value of the resource
- 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
- Pre-startup checks** are conducted to ensure:
- machine has been set up correctly

RANGE STATEMENT

- cutters are installed accurately
- machine is operating to optimum performance

Trial boards

are test pieces to trial the setting for the purpose of achieving the desired dimensions within tolerances

Disposing of may include:

- recycling trial boards that do not achieve the desired dimensions within tolerances/sub-standard boards
- re-using trial boards that do not achieve the desired dimensions within tolerances/sub-standard boards
- redirecting trial boards that do not achieve the desired dimensions within tolerances/sub-standard boards for energy recovery

Dressing conditions may relate to:

- feed rate and finish
- board size
- material removal
- timber species and condition
- cross section dimensions and profiles
- adjustments to maintain accurate sizing

Feed rates are to include:

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

Records and reports may include:

- tally sheets
- quality sheets and forms
- production sheets and downtime sheets

and may relate to:

- production details
- maintenance details
- breakdowns or equipment faults
- computer problems
- interruptions to production

and may be:

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

RANGE STATEMENT**Cutter** may include:

- jointing cutter
- saw and/or head

Dealing with may include:

- repairing or sending for repair blunt or damaged cutters
- recycling cutters that cannot be repaired
- sending cutters to landfill

Unit Sector(s)

Not Applicable

Competency field**Competency field** Common Technical