



Australian Government

Department of Education, Employment and Workplace Relations

FPISAW3211B Recondition guides

Release: 1

FPISAW3211B Recondition guides

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit describes the outcomes required to review, adjust, grind or machine and replace saw guides in band saws and gang saws assuring smooth and straight running

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 FPISAW3211A Recondition guides

Application of the Unit

Application of the unit

The unit involves reconditioning guides 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 reconditioning | 1.1. Applicable Occupational Health and Safety (OHS), environmental , legislative and organisational requirements relevant to reconditioning guides are identified and followed
1.2. Work order is reviewed and checked with appropriate personnel
1.3. Type of guides to be reconditioned are removed from the designated machinery
1.4. Equipment is selected appropriate to work requirements and checked for operational effectiveness in line with manufacturer's recommendations
1.5. Reconditioning process is planned in line with site procedures and environmental requirements
1.6. Communication with others is established and maintained in line with OHS requirements |
| 2. Machine guides | 2.1. Condition of saw guides is reviewed to assess guide wear available after grinding
2.2. Attachments for holding guides flat while grinding or machining are selected
2.3. Machining equipment is set up in position to conduct reconditioning
2.4. Tooling is examined and dressed or sharpened in line with site procedures and OHS requirements
2.5. Scored material is removed from guide by grinding or machining
2.6. Grinding or machining speeds and feeds are selected to avoid burn marks on guides and to optimise wheel or tool wear
2.7. Guides are reconditioned to meet geometric requirements of sawing equipment
2.8. Guides that cannot be reconditioned are segregated and disposed of in line with site procedures, manufacturer's recommendations and environmental requirements
2.9. Guide reconditioning process and equipment faults are investigated, recorded and reported in line with site requirements |
| 3. Remove, adjust and replace guides | 3.1. Worn guides are removed from carrier without component damage
3.2. Replacement guides are selected which follow |

ELEMENT**PERFORMANCE CRITERIA**

- manufacturer's requirements
- 3.3. Fastening holes are drilled and surfaces around drill holes cleaned up
- 3.4. New guides are inserted in carrier at correct position and required **tolerance** without component damage
- 3.5. Low stock and shortages of new guides or guide material are identified in line with site procedures
- 3.6. Guides are adjusted to **clearance** in line with manufacturer's recommendations
- 3.7. Clearance and guide security are checked before saw is started

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; efficiently and safely recondition guides
- 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 reconditioning guides
- 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 reconditioning guides
- Environmental risks and hazards
- Types of tools and equipment and procedures for their safe use, operation and

REQUIRED SKILLS AND KNOWLEDGE

maintenance

- Characteristics of metal and saw guides
- Reconditioning methods and geometry
- Guide condition assessment
- 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 and efficiently recondition guides 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 reconditioning guides
- following organisational policies and procedures relevant to reconditioning guides
- reconditioning guides in line with the work order and within prescribed organisational requirements
- removing and replacing saw guides from equipment
- assessing the condition of guides in line with standard operating procedures

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

EVIDENCE GUIDE

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.

OHS requirements:

are to be in line with applicable Commonwealth, State or Territory legislation and regulations, and organisational safety policies and procedures, and

RANGE STATEMENT

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
- 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

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

RANGE STATEMENT

- 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)
- Work order** is to include:
- instructions for reconditioning guides in designated equipment
- and may 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
- Guides**
- are alloys secured to a carrier which provide straightness and smooth running of the blade by supporting it, not allowing it to move too far to the left, right or back
- Reconditioning** is to include:
- grinding the guide surface to restore it to a smooth flat surface
 - machining the guide surface to restore it to a smooth flat surface
- Equipment** may include:
- grinding equipment
 - metal lathes
 - milling machines
- 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

RANGE STATEMENT

	• body language
Grinding	is the process of removing metal to restore a metal surface using grinding equipment
Machining	is the process of removing metal to restore a metal surface using metal lathes or milling machines
Dressing	is the process of cleaning or shaving the top surface of the grinding wheel to remove the build up of old sharpening metal and coolant
Sharpening	is the process of grinding and honing the cutting bits in metal lathes or milling machines
Scored material is to include:	guides which are deeply scratched or scraped by: • irregular running of the blade • poor operation of the saw • blunt or un-tensioned blade
Speeds and feeds	• is the speed the grinding wheel rotates or machine cuts at, too fast and it may burn the metal, too slow and it may produce a rough finish or grab the guide • power feed controls movement of the guide to the desired rate
Geometry	is the pitch and angle that a guide is ground or sharpened at, allowing for the material being reconditioned
Disposing of may include:	• recycling guides that cannot be reconditioned • re-using guides that cannot be reconditioned
Records and reports may include:	• reconditioning • inspection • storage locations • quality outcomes • hazards • incidents • equipment malfunctions and may be: • manual • using a computer-based system or another appropriate organisational communication system

RANGE STATEMENT

Carrier	is the saw attachment which holds the guide in place by the saw blade
Tolerance	is the amount of space between the back of the blade and the guide to avoid the blade striking the guide
Clearance	is the amount of space allowed for left and right movement

Unit Sector(s)

Unit sector	No sector assigned
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Co-requisite units

Co-requisite units

Competency field

Competency field	Sawmilling and Processing
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