Modification history

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| Release | Comments |
| Release 1 | This version released with FWP Forest and Wood Products Training Package Version 5.0. |

| FWPSAW3XXX | Recondition saw guides |
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| Application | This unit of competency describes the skills and knowledge required to review, adjust, grind or machine and replace guides in band saws to assure smooth and straight running.  The unit applies to individuals who recondition guides in a sawmill.  All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.  No occupational licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Sawmilling and Processing |

| Elements | Performance Criteria |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Prepare for reconditioning | 1.1 Review work order to determine job requirements and where required seek clarification from appropriate personnel  1.2 Review environmental protection procedures and workplace health and safety requirements including the use of personal protective equipment, equipment lockout and safe manual handling techniques  1.3 Identify, assess and take actions to mitigate risks and hazards associated with filing and setting saws  1.4 Identify and implement workplace procedures for minimising waste material and maximising energy efficiency  1.5 Remove guides from machinery  1.6 Select appropriate repair and maintenance equipment and check for operational effectiveness according to manufacturer recommendations  1.7 Plan reconditioning process according to work order |
| 2. Recondition guides | 2.1 Review condition of saw guides to assess wear  2.2 Select and position guides in guide holding attachment ready for reconditioning  2.3 Examine, dress, replace or sharpen tooling according to safety procedures  2.4 Set up reconditioning equipment  2.5 Remove scored material from the guide by grinding or machining  2.6 Select grinding or machining speeds and feeds to avoid burn marks on guides  2.7 Recondition guides to meet geometric and lubrication requirements of sawing equipment  2.8 Segregate and dispose of unserviceable guides according to environmental protection practices |
| 3. Remove, adjust and replace guides | 3.1 Remove worn guides from the carrier without damaging component  3.2 Select replacement guides according to manufacturer instructions  3.3 Insert new guides in the carrier at the correct position and required tolerance without damaging guides  3.4 Adjust guides to clearance according to manufacturer instructions  3.5 Check clearance and guide security before starting saw  3.6 Identify and report low stock and shortages of new guides according to workplace procedures.  3.7 Identify routine processing and equipment faults and resolve or report to appropriate personnel. |

| Foundation Skills  This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria. | |
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| Skill | Description |
| Reading | * Extract essential information from operational manuals to determine safe operating procedures for equipment |
| Writing | * Prepare routine written reports using the required format, language and structure |
| Oral Communication | * Employ active listening and questioning to clarify content of work orders |
| Numeracy | * Complete precise calculations to determine the required tolerance for positioning guides and to reface guides to the correct size and angle * Apply standard units of measurement in describing correct pitch and angle of guides * Use basic estimation skills to determine grinding wheel speed |
| Navigate the world of work | * Identify main tasks, responsibilities and boundaries of own role |
| Interact with others | * Use modes of communication suitable to purpose to confirm and clarify understanding |
| Get the work done | * Recognise and respond to routine problems |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FWPSAW3XXX Recondition saw guides | FWPSAW3211 Recondition guides | Modified Element 2 and Performance Criteria; added new Knowledge Evidence; updated unit code and title for clarity and compliance. | Non-equivalent |

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| Links | Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47 |

| TITLE | Assessment requirements for FWPSAW3XXX Recondition saw guides |
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| Performance Evidence | |
| An individual demonstrating competency must satisfy all the elements and performance criteria in this unit. There must be evidence that, on at least one occasion, the individual has:   * removed saw guides from equipment * assessed condition of the saw guide * machined saw guide * adjusted saw guide * replaced saw guides on equipment. | |

| Knowledge Evidence |
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| An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:   * purpose, features and operation of band saws for which guides are reconditioned * features and names of different parts of guides and carriers * purpose, features and operation of tools and equipment used to recondition guides and spacers: * grinding equipment * metal lathes * milling machines * router and jig * importance of reconditioning worn guides and spacers to the specified profile for continued straight and smooth running of saw blades * methods for: * removing guides from saw blade carriers * assessing the condition of guides * grinding guide surface to restore it to a smooth flat surface using grinding equipment * machining guide surface to restore it to a smooth flat surface using metal lathes or milling machines * re-inserting guides to carriers within allowable tolerances and adjusting clearances * basic knowledge of physics of sawing: * saw blade material and properties * impact of timber properties on saw blades * direction of cut * forces on a blade * heat removal * angles at which guides are ground or are sharpened (geometry) * range of speeds at which grinders and machines can be operated without damaging guides and spacers * types of risk and hazards and mitigation measures associated with reconditioning guides * workplace policies and procedures specific to reconditioning guides: * workplace health and safety with particular emphasis on equipment lockout, use of personal protective equipment (PPE) and safe manual handling techniques * communication reporting lines * recording and reporting processing and equipment faults * environmental protection practices for repairing and maintaining tools and equipment in sawmills: * reducing water and energy use * cleaning plant, tools and equipment * disposing of, recycling and reusing materials |

| Assessment Conditions |
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| Assessment of the skills in this unit of competency must take place under the following conditions:   * physical conditions: * skills must be demonstrated in a sawmill or an environment that accurately represents workplace conditions * resources, equipment and materials: * one or more of the following tools and equipment used to recondition guides: grinding equipment, metal lathe, milling machines and router and jig * band saws with guides to be reconditioned * replacement guides * PPE suitable for reconditioning guides * specifications: * template documents for recording processing and equipment faults * manufacturer instructions for use, repair and maintenance of equipment * work order with specific instructions for reconditioning guides in specified equipment * workplace procedures for reconditioning guides.   Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and / or standards. |

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