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 | Perform secondary log breakdown |
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| Application | This unit of competency describes the skills and knowledge required to perform secondary log breakdown by sawing flitches and cants to produce edged (cut lengthwise) and trimmed (cut widthwise) boards.  The unit applies to individuals who saw flitches and cants to produce edged (cut lengthwise) and trimmed (cut widthwise) boards in a timber processing plant.  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 secondary log breakdown | 1.1 Review work order and where required check with appropriate personnel  1.2 Review environmental protection procedures and workplace health and safety requirements including personal protective equipment, equipment lockout and safe manual handling techniques  1.3 Identify risks and hazards and apply appropriate control techniques according to workplace procedures  1.4 Match cutting pattern and product mix to cants and fitches according to workplace procedures  1.5 Identify processing constraints and potential solutions according to workplace procedures |
| 2. Operate sawing equipment | 2.1 Complete pre-start-up checks according to manufacturer and workplace procedures  2.2 Check input cants and fitches to ensure compliance with specifications  2.3 Check that other upstream and downstream processing stages are ready for production  2.4 Select cutting programme based on incoming cants and fitches and work order requirements  2.5 Cut trial cant or flitch to check for quality and compliance with cutting schedule requirements  2.6 Operate sawing equipment to comply with the cutting strategy, maximise grade and size, and optimise recovery value  2.7 Manage product flow to ensure efficient workflow in the sawmill and optimise secondary breakdown operations |
| 3. Monitor the performance of sawing equipment | 3.1 Enter control information into any control device fitted to the sawing equipment according to workplace procedures  3.2 Monitor and interpret output data according to workplace procedures  3.3 Monitor output from the sawing equipment and implement corrective action according to workplace procedures  3.4 Complete production, maintenance and quality records according to workplace procedures  3.5 Identify routine processing problems and resolve or report to appropriate personnel |
| 4. Implement routine maintenance procedures for sawing equipment | 4.1 Carry out preventative maintenance and cleaning schedule for sawing equipment according to workplace procedures  4.2 Coordinate saw changes with other staff and make adjustments to breakdown equipment according to workplace procedures |

| 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 information from manufacturer procedures to verify safe lockout procedures when performing routine equipment maintenance * Determine work specifications by identifying information in work orders |
| Writing | * Complete basic written reports for maintenance staff on observed equipment faults * Complete hazard identification forms |
| Oral communication | * Ask open and closed questions to clarify work instructions * Respond to questions on routine matters related to output quality from quality control personnel |
| Numeracy | * Count number of cants and fitches to be sawn * Perform basic calculations to determine feed rate to optimise quality and quantity of production output |
| Navigate the world of work | * Comply with WHS procedures relevant to a forest and forest products factory environment * Follow workplace policies and procedures relevant to work role |
| Interact with others | * Participate in conversations with team members relevant to the implementation of maintenance procedures |
| Get the work done | * Identify and respond to routine problems * Plan and organise own work activities and resources |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FWPSAW3XXX Perform secondary log breakdown | FWPSAW3203 Saw cants and flitches | Updated unit title, Application statement, Elements and Performance Criteria to focus unit on secondary log breakdown process; updated Foundation Skills; clarified Assessment Requirements by providing clearer definition of performance evidence and associated assessment conditions and matching knowledge evidence requirements with work task; clarified Assessment Conditions. | 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 Perform primary log breakdown |
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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:   * followed workplace health and safety requirements and environmental protection procedures for setting up sawing equipment and carrying out secondary log breakdown * operated sawing equipment to break down flitches and cants to produce edged (cut lengthwise) and trimmed (cut widthwise) boards * monitored the performance of sawing equipment * implemented routine maintenance procedures for sawing 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:   * types of risk and hazards and mitigation measures associated with secondary log breakdown operations * workplace procedures specific to breaking down logs: * workplace health and safety with particular emphasis on equipment lockout and use of personal protective equipment (PPE) * communication reporting lines * recording and reporting processing problems and equipment faults * environmental protection practices for forest products factory settings: * reducing water and energy use * cleaning plant, tools and equipment * disposing of, recycling and reusing timber * distinction between primary and secondary log breakdown * basic operations that transform logs into sawn boards: * sawing * edging * trimming * impact of secondary log breakdown on recovery * purpose, operating components and operation of sawing equipment * operating parameters and capability of sawing equipment * safety features of sawing equipment * isolation procedures * stop button * lockout switch or system * hold cards * guards * processing constraints and potential solutions * markets * fitch and cant supply * timber defects * product mix * downstream processing options * typical workflow processes for secondary log breakdown * hazards associated with the operation of sawing equipment * moving equipment * dust * mobile plant * noise * typical flow of log supply in and out of the sawing area * range of cutting patterns used on logs to produce edged (cut lengthwise) and trimmed (cut widthwise) boards * to achieve maximum output of edged (cut lengthwise) and trimmed (cut widthwise) boards * range of feed rates and how they affect production output and finished quality of boards * characteristics of timber * breakdown processes, feed rates and finish * methods for assessing saw blade condition * types of storage and labelling systems * typical log defects and the impact on production of quality flitches and cants: * warp * wane * curvature * cupping * shakes * insect defects * knots * resin pockets * types of and processes for implementing routine operator maintenance activities associated with sawing operations. |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions * skills must be demonstrated in a timber processing plant or an environment that accurately represents workplace conditions * resources, equipment and materials: * automatic, manual or semi-automated sawing equipment for use in secondary log breakdown * PPE for the secondary log breakdown * a selection of cants and fitches * specifications * manufacturer instructions for equipment operation and maintenance * work order with specific instructions for secondary log breakdown and dispatching to downstream processing * template documents for recording equipment faults and maintenance requirements * workplace policies and procedures for secondary log break down * 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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