Modification history

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| Release | Comments |
| Release 1 | This version released with FWP Forest and Wood Products Training Package Version 4.0. |

| UNIT CODE | FWPSAW4204 Plan and monitor timber conversion |
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| Application | This unit of competency describes the skills and knowledge required to plan the production of timber from flitches and cants in a timber processing facility. Work involves responsibilities in planning cutting patterns and schedules, coordinating sawing processes and monitoring equipment and output for improvement.  The unit applies to individuals who work as supervisors and production supervisors in timber processing facilities. They generally demonstrate autonomy, judgement and limited responsibility in known or changing contexts and within established parameters.  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 licensing, legislative, regulatory, 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. Plan timber production from flitches and cants | 1.1 Assess flitches and cants for types of timber that can be cut and determine optimal cutting pattern  1.2 Plan and document cutting patterns to maximise output and minimise wastage  1.3 Develop timber cutting schedules and work orders and brief sawyers in line with workplace procedures  1.4 Identify variations in timber characteristics and report to sawyers  1.5 Review workplace health and safety requirements, environmental protection practices and emergency procedures in line with operational requirements  1.6 Identify and control hazards and use personal protective equipment (PPE) in line with workplace requirements and health and safety legislation to maintain safe work practices |
| 2. Coordinate sawing operations for timber production | 2.1 Assist sawyers to evaluate flitches or cants and sawing problems  2.2 Monitor and assess timber cutting processes for quality of cutting pattern, suitability to flitch or cant condition and ability to maintain schedule  2.3 Modify cutting patterns and schedule as required to ensure optimum performance and communicate to sawyers  2.4 Assist sawyers to reject sub-standard flitches and cants and ensure they are disposed of in line with environmental protection practices  2.5 Ensure processed timber is directed to designated area for storage or further processing  2.6 Complete and maintain records of cutting output in line with workplace procedures  2.7 Investigate, record and report major processing and equipment faults and resolve or report to appropriate personnel |
| 3. Evaluate and determine process improvement | 3.1 Monitor and evaluate timber conversion operations and output to determine process improvements  3.2 Document process improvements and communicate to appropriate personnel in line with 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 |
| Numeracy | * complete routine calculations to measure flitches and cants * complete complex calculations to determine: * potential volume return from flitches and cants * cutting schedules considering human and equipment resource capacity |
| Navigate the world of work | * understand main tasks, responsibilities and boundaries of own role * take responsibility for coordinating a team of sawyers for effective timber production operations |
| Interact with others | * use modes of communication suitable to purpose to facilitate process improvements |
| Get the work done | * use a computer, keyboard and software to prepare cutting schedules, work orders and reports |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FWPSAW4XXX Plan and monitor timber conversion | FWPSAW4204 Plan and monitor board conversion | Updated industry terminology, workplace health and safety requirements and foundation skills; clarified intent of the unit and assessment requirements; changed unit title and code for compliance and consistency with the updates | Equivalent unit |

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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 FWPSAW4XXX Plan and monitor timber conversion |
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| Performance Evidence | |
| An individual demonstrating competency must satisfy all of the elements, performance criteria and foundation skills of this unit. There must be evidence that, on at least one occasion, the individual has:   * followed workplace health and safety requirements and environmental procedures for planning and monitoring timber production from flitches or cants * planed and monitored timber production from flitches or cants * modified cutting patterns and schedules for sawing operations * coordinated personnel to follow planning, communications and scheduling of sawing operations for timber production. | |

| 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:   * health and safety hazards or risks related to sawing operations for timber production as identified through risk assessments, manufacturer technical information, regulations and industry health and safety guides * workplace procedures specific to planning and monitoring sawing operations for timber production: * health and safety including use of personal protective equipment * communication reporting lines for sawyer team members and self * documenting cutting patterns, schedules, work orders and reports * recording and reporting systematic equipment faults * environmental protection practices for disposing of, recycling and reusing timber * purpose, features and operation of equipment used for assessing flitches and cants * capacity of sawing equipment and systems * methods used to assess flitches and cants for size, volume and type of timber that can be cut * methods used to assess timber for sawn finish and dimensional consistency * stages of the sawing process for timber production * typical flow of flitch and cant supply in and out of the sawing area * cutting patterns used on flitches and cants to achieve maximum output of timber * methods of determining cutting schedules to maximise efficient handling of flitches and cants to be sawn * methods used to assess timber cutting processes for quality of outcomes and scheduling * format, content and use of: * cutting pattern documents * cutting schedules * work orders * cutting records * process improvement reports. |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * skills must be demonstrated in an environment that accurately represents workplace conditions * resources, equipment and materials: * flitch and cant measuring equipment * computers, keyboards, printers and software used to prepare planning and production documents * personal protective equipment suitable for assessing flitches and cants * a diverse, comprehensive and commercial range of flitches and cants * specifications: * cutting pattern documents * cutting schedules * work orders * cutting records * process improvement reports * record for equipment faults * workplace procedures for planning and monitoring timber production from flitches or cants including health and safety and emergency procedures and environmental protection procedures * relationships: * a team of sawyers with whom the individual can interact.   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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