Modification history

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

| FWPSAW4XXX | Monitor output timber for optimum volume and value recovery |
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| Application | This unit of competency describes the skills and knowledge required to monitor timber production to optimise volume and value of sawn timber. This includes working safely, monitoring timber production for volume, grade and size and reporting on production outcomes and compliance with optimisation objectives.  The unit applies to individuals who monitor output timber for optimum volume and value recovery in timber sawmills.  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 | SAW |

| 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 work | 1.1 Review work order to determine job requirements and where required seek clarification from appropriate personnel  1.2 Identify and apply workplace health and safety requirements, including use of personal protective equipment and safe manual handling techniques  1.3 Identify, assess and take actions to mitigate risks and hazards associated with sawing operations  1.4 Identify and implement workplace procedures for minimising waste material and maximising energy efficiency |
| 2. Monitor timber production | 2.1 Confirm cutting pattern, product mix and optimisation objectives in relation to timber volume and value recovery  2.2 Identify and monitor output data for timber volume, grade and size, noting any anomalies, and taking corrective action as required to optimise volume and value of timber according to workplace procedures  2.3 Monitor output timber for grade and size, noting any anomalies and taking corrective action as required to optimise the volume and value of timber according to workplace procedures  2.4 Monitor equipment operation, recording faults and malfunctions and taking corrective action as necessary to optimise volume and value of timber according to workplace procedures |
| 4. Report on optimisation | 3.1 Record optimisation data according to workplace procedures  3.2 Compare production data with optimisation objectives  3.3 Report production outcomes and compliance with optimisation objectives to an appropriate person  3.4 Make recommendations based on evidence to improve production and optimisation outcomes |

| 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 visual display units and printouts to confirm optimisation objectives |
| 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 | * Interpret graphical and statistical data to compare production output against optimisation objectives * Identify and interpret trends and anomalies in statistical data |
| Navigate the world of work | * Understand 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 |
| FWPSAW4XXX Monitor output timber for optimum volume and value recovery | Not applicable | New unit | Not applicable |

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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 Monitor output timber for optimum volume and value recovery |
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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:   * reviewed work order to determine job requirements * identify and applied workplace health and safety requirements throughout the work * identified, assessed and taken actions to mitigate risks and hazards associated with sawing operations * monitored output timber for optimum volume and value recovery * recorded and reported on production outcomes and their compliance with optimisation objectives * made recommendations based on evidence to improve production and optimisation outcomes. | |

| 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:   * optimisation principles * cutting patterns * output data * sources of output data * types of output data * methods of interpreting output data * common anomalies in output data * ways of validating accuracy of output data * corrective actions in response to common anomalies in output data * timber processing constraints: * markets * timber supply * preferred products * downstream processing options * types of equipment faults and appropriate corrective actions * mechanical * hydraulic * pneumatic * electrical * data * electronic * corrective action * communication to management * communication to the on-site technical support person * communication to the off-site technical support person * cleaning * communication with maintenance staff * recalibration * changes made to the operating system according to workplace procedures * determinants of product mix * timber characteristics * machine capability * product demand * influences on timber volume and value recovery * methods for reusing, recycling or disposing of items that do not meet quality requirements * risks and hazards associated with sawing operations * safe work practices and procedures including use of personal protective equipment (PPE) and safe manual handling techniques |

| 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: * PPE for sawmill operations * specifications: * template documents for recording production outcomes * work order with specific instructions for optimising timber production for volume and value recovery * workplace procedures for optimising timber production for volume and value recovery.   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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