Modification history

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| Release | Comments |
| Release 1 | This version released with PPM Training Package Version 1.0. |

| PPMPUL210 | Monitor and control pulping operations |
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| Application | This unit of competency describes the outcomes required to monitor and maintain pulping processes, ensure product quality and record and report production data.  The unit applies to production support operators who monitor and control pulping operations in a pulp or paper manufacturing facility. This typically involves working in a facility with complex integrated equipment and continuous operations.  No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Pulp and Paper Manufacturing (PPM) |

| 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. Monitor and maintain process | 1.1. Check production requirements at start of shift and plan daily work activities in line with organisational safety and standard operating procedures.  1.2. Confirm operational parameters by inspection and observation.  1.3. Maintain process supplies and supply systems to meet production requirements.  1.4. Monitor process to ensure pulping system operations are within specification.  1.5. Identify, rectify or report routine variations from specification.  1.6. Monitor and maintain process levels to maintain productivity requirements.  1.7. Monitor discharges to meet environmental protection requirements. |
| 2. Control product quality | 2.1. Monitor and maintain pulp to quality requirements.  2.2. Conduct routine visual observations and assessments on pulp and system operations.  2.3. Sample and test pulp quality to ensure production requirements are maintained; interpret and record results.  2.4. Adjust system operation to rectify out-of-specification pulp and maintain productivity requirements.  2.5. Monitor and control product storage levels. |
| 3. Monitor and maintain plant | 3.1. Inspect plant, interpret variations and adjust to maintain production and quality schedules.  3.2. Calibrate and maintain test equipment.  3.3. Complete routine preventative maintenance in line with maintenance schedules. |
| 4. Record and report product and process data | 4.1. Interpret production data and enter into recording system.  4.2. Communicate problems or variations with process, product or equipment to relevant personnel.  4.3. Record and report problems with environmental releases. |

| 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 skills to: | * interpret basic numerical settings on instruments, gauges and data recording equipment * monitor, assess and interpret production data * record basic numerical data for test results and production outcomes. |
| Oral communication skills to: | * provide clear basic information about problems or variations with process, products and equipment. |
| Reading skills to: | * interpret: * workplace health and safety and standard operating procedures * maintenance schedules. |
| Writing skills to: | * complete accurate basic records for system operation, production outcomes and problems with environmental release. |
| Problem solving skills to: | * use and assess sensory information (sight, sound, touch, smell, vibration, temperature) to adjust process to maximise safety, quality and productivity. |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| PPMPUL210 Monitor and control pulping operations | FPPPUL210A Monitor and control pulping operations |  | 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=12998f8d-d0ac-40bc-a69e-72a600d4fd93 |

| TITLE | Assessment requirements for PPMPUL210 Monitor and control pulping operations |
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| Performance Evidence | |
| A person demonstrating competency in this unit must satisfy all of the elements and performance criteria of this unit, and must be able to provide evidence that they can:   * monitor and control pulping operations within a pulp and paper manufacturing facility, at least twice in line with required enterprise intervals, and with individual production requirements for each period * across operational periods, complete these types of routine maintenance on equipment * for each of the above operational periods, complete records for system operation, production outcomes and equipment faults. | |

| Knowledge Evidence |
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| A person competent in this unit must be able to demonstrate knowledge of:   * organisational procedures relevant to workplace health and safety with particular emphasis on: * use of personal protective equipment (PPE) * equipment lock out and isolation procedures * handling chemicals and hazardous substances, including spill and disposal guidelines * plant clearance requirements * emergency procedures and responses * job safety analysis documentation and processes * plant permit systems and processes * high risk load shifting licensing requirements where relevant * major hazard facility licensing requirements where relevant * system layout for pulping plant * purpose, features and operation of pulping plant, operating parameters and allowable variations * operation and application of electronic and other control systems * process stages and key control points for monitoring and controlling pulping operations * purpose of, and processes for sampling and testing product quality, plant and system operations * quality requirements for different types of pulped product including: * bleached or unbleached pulp * fluff pulp * crumbed pulp * baled, rolled or sheet pulp * slushed pulp * methods used to monitor pulping system operations against specified system parameters * effect of process adjustments on product quality and productivity during monitoring and operation * causes and effects of process variation between upstream and downstream customers * calibration requirements for test equipment * organisational procedures: * standard operating procedures specific to pulping operations * communication reporting lines * recording and reporting system operation, production outcomes, equipment faults and problems with environmental release |

| Assessment Conditions |
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| The following resources must be made available:   * fully automated, semi-automated, manually operated plant and equipment appropriate to pulping operations and related consumables * pulping systems (at least one of the following): * power and steam systems * hydraulic and electrical systems * pneumatic systems * consumable materials (at least one of the following): * woodchips * pulp * chemicals * maintenance tools and equipment and consumables for pulping plant * personal protective equipment suitable for operating pulping plant * maintenance schedules for pulping plant * template documents for recording system operation, production outcomes and environmental releases * organisational workplace health and safety and standard operating procedures * relevant personnel for the purposes of communicating information   Competency is to be assessed in the workplace or in a productive environment that accurately reflects performance in a workplace.  Assessor requirements  Assessors must:   * hold the appropriate assessor competency standards as outlined in regulations; and * be able to demonstrate vocational competencies at least to the level being assessed; and * be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence. |

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