

Modification history

Release	Comments
Release 2	This version released with PPM Pulp and Paper Manufacturing Training Package Version 2.0.
Release 1	This version released with PPM Pulp and Paper Manufacturing Training Package Version 1.0.

PPMPUL210	Monitor and control pulping operations
Application	<p>This unit of competency describes the skills and knowledge required to monitor and maintain pulping processes, ensure product quality and record and report production data.</p> <p>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.</p> <p>No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Pulp and Paper Manufacturing (PPM)

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Monitor and maintain process	1.1 Check production requirements at start of shift and plan to carry out daily work activities in line with organisational safety and standard operating procedures (SOP) 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 1.8 Select, fit, use and maintain personal protective equipment according to job requirements and task to be undertaken
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 and 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	
<i>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.</i>	
Skill	Description
Reading	<ul style="list-style-type: none"> Interpret workplace health and safety and SOP Interpret maintenance schedules
Writing	<ul style="list-style-type: none"> Complete accurate basic records for system operation, production outcomes and problems with environmental release
Oral communication	<ul style="list-style-type: none"> Provide clear basic information about problems or variations with process, products and equipment
Numeracy	<ul style="list-style-type: none"> 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
Get the work done	<ul style="list-style-type: none"> Use and assess sensory information (sight, sound, touch, smell, vibration, temperature) to adjust process to maximise safety, quality and productivity

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
PPMPUL210 Monitor and control pulping operations Release 2	PPMPUL210 Monitor and control pulping operations Release 1	Performance criteria added, minor changes to knowledge evidence	Equivalent unit

Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=12998f8d-d0ac-40bc-a69e-72a600d4fd93
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TITLE	Assessment requirements for PPMPUL210 Monitor and control pulping operations
Performance Evidence	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that the individual has:</p> <ul style="list-style-type: none"> • monitored and controlled pulping operations at least twice in line with required enterprise intervals, and with individual production requirements for each period • completed routine maintenance on equipment across operational periods • completed records for system operation, production outcomes and equipment faults for each of the above operational periods. 	

Knowledge Evidence	
<p>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:</p> <ul style="list-style-type: none"> • organisational procedures relevant to workplace health and safety with particular emphasis on: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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	
<p>Assessment of skills must take place under the following conditions:</p> <ul style="list-style-type: none"> • physical conditions: <ul style="list-style-type: none"> • a workplace or a productive environment that accurately reflects performance in a workplace • resources, equipment and materials: <ul style="list-style-type: none"> • fully automated, semi-automated, manually operated plant and equipment appropriate to pulping operations and related consumables • pulping systems (at least one of the following): <ul style="list-style-type: none"> ○ power and steam systems ○ hydraulic and electrical systems ○ pneumatic systems 	

Assessment Conditions
<ul style="list-style-type: none">• consumable materials (at least one of the following):<ul style="list-style-type: none">○ woodchips○ pulp○ chemicals• maintenance tools and equipment and consumables for pulping plant• PPE suitable for operating pulping plant• specifications:<ul style="list-style-type: none">• 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 <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>

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