



Australian Government

PPMWEO210 Monitor and control wet end operations

Release: 2

PPMWEO210 Monitor and control wet end operations

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.

Application

This unit of competency describes the skills and knowledge required to monitor and control wet end operations, ensure product quality, complete product grade changes and record process and system information.

The unit applies to production support workers who work in a pulp and paper manufacturing facility in the wet end area. This typically involves complex integrated equipment and continuous operations.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Wet end operations (WEO)

Elements and Performance Criteria

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 workplace health and safety and standard operating procedures (SOP) including the use of correct personal protective equipment

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.2 Confirm operational status by inspection, observation and other information 1.3 Maintain process supplies to meet production requirements 1.4 Monitor process to ensure wet end 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 Detect sheet breaks and re-establish sheet according to SOP 1.8 Complete routine preventative maintenance in line with maintenance schedules
2. Control product quality	2.1 Monitor and maintain sheet to quality requirements 2.2 Conduct routine visual observations and assessments on product and system operations 2.3 Sample and test product quality and interpret and record results 2.4 Adjust system operation to rectify out-of-specification product and maintain productivity requirements
3. Complete product grade change	3.1 Plan and determine grade change requirements and obtain stock and chemicals 3.2 Shut down wet end systems according to SOP 3.3 Complete flushing, draining and cleaning of stock, chemicals and water systems 3.4 Implement process setups or adjustments to meet new grade requirements 3.5 Stage raw materials and supplies required for new grade requirements as ready for use 3.6 Coordinate and implement stock, chemical and water system startups to meet new grade requirements 3.7 Coordinate and implement grade change on the run according to organisational procedures
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

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	equipment to relevant personnel

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.

Skill	Description
Reading	Interpret requirements in workplace health and safety, SOPs and maintenance schedules
Writing	Complete accurate basic records for system operation and production outcomes
Numeracy	- 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
Interact with others	Provide clear basic information about problems or variations with process, products and equipment
Get the work done	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
PPMWEO210 Monitor and control wet end operations Release 2	PPMWEO210 Monitor and control wet end operations Release 1	Minor changes to performance criteria and knowledge evidence	Equivalent unit

Links

Companion Volumes, including Implementation Guides, are available at VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=12998f8d-d0ac-40bc-a69e-72a600d4fd93>

Assessment Requirements for PPMWEO210 Monitor and control wet end operations

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that the individual has:

- monitored and controlled wet end operations in a pulp and paper manufacturing facility, at least twice in line with required enterprise intervals and individual production requirements for each period
- completed routine maintenance on equipment and product grade changes across operational periods
- completed records for system operation, production outcomes and equipment faults for each of the above operational periods.

Knowledge Evidence

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:

- 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 requirements where relevant
- system layout for wet end plant

- purpose, features and operation of wet end system plant, operating parameters and allowable variations
- operation and application of electronic and other control systems
- key features of processes involved coordinating grade changes
- purpose of, and processes for sampling and testing product quality, plant and system operations
- quality requirements for different types of wet end product
- methods used to monitor wet end system operations against specified system parameters
- effect of process adjustments on product quality and productivity during monitoring and operation
- types of grades for wet end product and applicable terminology
- types of raw materials used to produce wet end product and how they influence paper properties
- organisational procedures:
 - standard operating procedures (SOP) specific to wet end operations
 - communication reporting lines
 - recording and reporting system operation, production outcomes and equipment faults.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a workplace or a productive environment that accurately reflects performance in a workplace
- resources, equipment and materials:
 - access to the full range of tools and equipment involved in integrated continuous manufacturing of wet end operations in a pulp or paper manufacturing facility
 - fully automated, semi-automated, manually operated plant and equipment appropriate to the wet end process and related consumables
 - PPE required for monitoring and controlling wet end operations
 - test and diagnostic equipment
 - electronic control systems which includes digital control system, touch screens or robotics
- specifications:
 - sample workplace documentation relevant to wet end systems regarding workplace health and safety procedures, risks and hazards identification procedures, environmental and safe working requirements/practices, SOP and housekeeping requirements.

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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