



Australian Government

PPMWEO301 Perform wet end operations

Release: 1

PPMWEO301 Perform wet end operations

Modification History

Release	Comments
Release 1	This version released with PPM Pulp and Paper Manufacturing Training Package Version 3.0.

Application

This unit of competency describes the skills and knowledge required to prepare for, start up, stabilise and shut down systems in wet end operations.

The unit applies to production operators who perform wet end operations in a paper manufacturing facility, and respond to contingencies that occur working with complex integrated equipment and continuous operations.

No licensing, legislative 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. Prepare for wet end operations	1.1 Identify production requirements and specifications to plan system operations and processes 1.2 Identify workplace health and safety hazards, assess risks and determine control measures 1.3 Identify process control points according to production specifications 1.4 Confirm availability of machine supplies

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.5 Select, fit and use personal protective equipment according to job requirements and task to be undertaken 1.6 Communicate production requirements and specifications, workplace health and safety and environmental requirements and operating procedures to relevant personnel
2. Inspect and prepare systems for start-up	2.1 Inspect wet end and electronic control systems for safety and indication of faults or problems 2.2 Remove isolations according to operating procedures 2.3 Set and confirm operational settings according to production requirements and specifications 2.4 Complete pre-start check-ups and confirm operation of monitoring devices 2.5 Identify and rectify common faults or refer complex faults to specialist technician
3. Start up and stabilise wet end operations	3.1 Coordinate, communicate and implement start-up procedures for wet end operations 3.2 Confirm system functions by monitoring plant, equipment and control system and display monitors 3.3 Establish sheet and stabilise through wet end sections to parent reel 3.4 Monitor and adjust systems to rectify variations from specifications 3.5 Adjust and modify to stabilise sheet quality within specifications
4. Implement and monitor system shutdown	4.1 Coordinate and communicate planned shutdown of wet end operations to relevant personnel 4.2 Shut down plant or system according to productivity, workplace health and safety and environmental requirements and operating procedures 4.3 Monitor functionality of equipment during shutdown 4.4 Implement isolation requirements according to operating and housekeeping procedures
5. Respond to unplanned shutdown	5.1 Respond to unplanned faults and stoppages according to operating, emergency and workplace health and safety procedures 5.2 Complete shutdown and isolation according to operating

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	procedures 5.3 Locate and rectify cause of unplanned shutdown within area of responsibility 5.4 Communicate shutdown information to relevant personnel
6. Record and report production information	6.1 Record production and quality data and system operation information according to workplace requirements 6.2 Report problems or variations with production, quality and system 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 information from workplace procedures and documentation
Writing	Complete records accurately and legibly using clear language and industry terminology
Oral communication	Provide information about start-up and shutdown operations, problems or variations with production, quality and system using clear language and industry terminology
Numeracy	- Interpret numerical settings on instruments, gauges and data recording equipment - Record numerical data for system and operational performance

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
PPMWEO301 Perform wet end	PPMWEO320 Prepare and start up	Merges two units Changes to unit title,	Not equivalent

Code and title current version	Code and title previous version	Comments	Equivalence status
operations	wet end operations	elements, performance criteria, foundation skills, performance evidence and knowledge evidence Assessment conditions updated	
PPMWEO301 Perform wet end operations	PPMWEO330 Coordinate and implement wet end shutdown	Merges two units Changes to unit title, elements, performance criteria, foundation skills, performance evidence and knowledge evidence Assessment conditions updated	Not equivalent

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 PPMWEO301 Perform 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 planned for, coordinated, and safely started up and shut down wet end operations for at least two operational intervals, including for each operational interval:

- determined and monitored process control points
- monitored, assessed causes and adjusted systems to rectify variations from specifications and unplanned shutdown
- used and interpreted electronic control systems during operations
- applied safe use and handling of chemicals and materials
- recorded and reported accurate operational data
- communicated effectively and worked safely with others when undertaking wet end operations.

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:

- workplace and legislative health and safety requirements relevant to performing wet end operations, including emergency procedures, handling chemical and hazardous substances, high risk load shifting, licensing requirements, plant clearance and permit systems
- relevant workplace and legislative environmental sustainability requirements and practices for wet end operations, including workplace biotechnological applications and processes and biomass-derived products
- methods used to identify and manage hazards and risks that apply to wet end operations
- wet end systems and processes, plant layout and associated services relevant to carrying out start-up, stabilising and shutdown activities
- standard operating procedures specific to wet end operations

- types, uses and characteristics of raw materials to produce wet end product, and how they influence paper properties
- quality requirements for different types of wet end products
- grades types for wet end product
- purpose of, and processes for, sampling and testing product quality, plant and system operations
- methods used to monitor wet end system operations against specified system parameters
- effect of process adjustments on product quality and productivity during operation
- application of electronic and other control systems used to operate, control and make appropriate adjustments to wet end operations
- responses used for unplanned shutdowns, including those caused by power outage, mechanical breakdown, blockages, jamming, air supply and control system failure
- procedures for communicating, recording and reporting system operation, production outcomes and equipment faults.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a paper manufacturing facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - wet end system and plant
 - maintenance tools and equipment and consumables for wet end plant
 - electronic control systems that include digital control system, touch screens or robotics used in wet end systems
 - materials used in wet end processes, including chemicals, compressed air, water, electricity, gas, steam, additives, machine clothing and ropes and belts
 - personal protective equipment required for operating wet end systems
 - proforma or recording system for recording system and production data and information
- specifications:
 - workplace and standard operating procedures relating to wet end operations, including health and safety, risks and hazards identification, plant isolation, quality, housekeeping and environmental requirements
- relationships:
 - relevant personnel for the purposes of communicating information.

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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