



Australian Government

PPMDEO201 Monitor and control dry end operations

Release: 1

PPMDEO201 Monitor and control dry 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 monitor and control dry end operations, ensure product quality, complete product grade changes and record and report production data.

This unit applies to production workers who assist in the dry end operations of a paper manufacturing facility, undertaking routine work in monitoring, identifying and solving predictable problems that occur with integrated equipment and continuous operations.

Dry end operations cover a range of systems and subsystems, including drying processes, reeling operations, chemical additive system, monitoring systems, sheet treatment processes, tail feed systems, broke system, on-line coating and coated paper systems, calendering systems, vacuum systems, laser systems, slitter systems, sheet transfer systems, accumulator and cleaning showers.

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

Pre-requisite Unit

Nil

Unit Sector

Dry End Operations (DEO)

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 to monitor dry end operations	1.1 Check production requirements at start of shift, and plan work activities according to workplace health and safety and standard

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	operating procedures 1.2 Identify health and safety hazards and report safety concerns 1.3 Select and fit personal protective equipment according to safety requirements 1.4 Check tools and equipment are operational, and supplies are available
2. Monitor and maintain process	2.1 Confirm operational status by inspection, observation and other relevant workplace information 2.2 Maintain process supplies to meet production requirements 2.3 Monitor process to ensure dry end system operations are within specification 2.4 Identify, rectify or report routine variations from specification 2.5 Monitor and maintain process levels to maintain productivity requirements 2.6 Detect sheet breaks and re-establish sheet according to operating procedures 2.7 Complete routine preventative maintenance according to maintenance schedules
3. Maintain product quality	3.1 Monitor and maintain sheet to quality requirements 3.2 Conduct routine visual observations and assessments on product and system operations 3.3 Sample, test and record product quality to ensure production requirements are maintained 3.4 Adjust system operation to rectify out-of-specification product and maintain productivity requirements
4. Complete product grade change	4.1 Identify grade change requirements 4.2 Shut down dry end systems according to operating procedures 4.3 Carry out process setups or adjustments to meet new grade requirements 4.4 Implement equipment start-ups to meet new grade requirements 4.5 Implement grade change on the run according to product specifications

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
5. Record and report product and process data	5.1 Interpret production data and enter into recording system 5.2 Communicate problems or variations with process, product or 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 information in workplace procedures and maintenance schedules
Writing	Complete accurate basic records in the required format
Oral communication	Provide information about problems or variations with process, products and equipment using clear language and industry terminology
Numeracy	- Interpret basic numerical settings on instruments, gauges and data recording equipment - Record basic numerical data for test results and production outcomes

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
PPMDEO201 Monitor and control dry end operations	PPMDEO210 Monitor and control dry end operations	Merged unit Element added Changes to performance criteria, foundation skills, performance evidence and knowledge evidence Assessment conditions	Not equivalent

		updated Addresses coated paper processes	
PPMDEO201 Monitor and control dry end operations	PPMCPP210 Monitor and control coated paper processes	Merged unit Element added Changes to 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 PPMDEO201 Monitor and control dry 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 undertaken routine monitoring and control of dry end operations for at least two operational intervals, including for each interval:

- completed checks throughout the process and responded appropriately to variations from process and product specifications
- completed routine maintenance on equipment
- completed a product grade change
- completed accurate records for system operation, production outcomes and equipment faults.

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 health and safety requirements and procedures for dry end operations equipment relevant to dry end operations
- workplace environmental sustainability requirements and practices for dry end operations, including workplace biotechnological applications and processes and biomass-derived products
- purpose, features and operation of dry end system plant, operating parameters and allowable variations
- operation and application of electronic and other control systems to control dry end operations
- grade types for dry end product and processes required to complete grade changes for dry end operations
- purposes and processes for, sampling and testing product quality, plant and system operations
- quality requirements for different types of dry end product

- methods used to monitor dry end system operations against specified system parameters
- types of raw materials used to produce dry end product
- standard operating procedures specific to dry end operations
- procedures for communicating, recording and reporting for 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 reflects performance in a workplace
- resources, equipment and materials:
 - dry end plant and equipment
 - maintenance tools and equipment and consumables for dry end plant
 - testing and diagnostic equipment
 - electronic control systems, including digital control system, touch screens or robotics required for dry end operations
 - personal protective equipment for operating dry end plant
 - proforma or recording system for recording system operation and production outcomes
- specifications:
 - workplace and standard operating procedures relating to dry end operations, including health and safety, risks and hazards identification, plant isolation, quality, housekeeping and environmental requirements
 - maintenance schedules for dry end plant.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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