



Australian Government

PPMDEO320 Prepare and start up dry end operations

Release: 2

PPMDEO320 Prepare and start up dry 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 inspect, prepare and establish startup dry end operations in the pulp and paper industry.

This unit applies to operators and technicians who prepare and start up dry end operations in a pulp and paper manufacturing facility. This work typically involves complex integrated equipment and continuous operations. Dry end operations describe a range of systems and sub systems including drying processes, reeling operations, chemical additive system, monitoring systems, sheet treatment processes, tail feed systems, broke system, on-line coating systems, calendering systems, vacuum systems, laser systems, slitter systems, sheet transfer systems, accumulator, 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. Determine production requirements	1.1 Confirm planned production requirements and communicate to relevant personnel according to workplace health and safety,

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	production requirements and standard operating procedures 1.2 Confirm availability of machine supplies 1.3 Select, fit, use and maintain personal protective equipment according to job requirements and task to be undertaken
2. Inspect and prepare systems for startup	2.1 Inspect systems for dry end operations 2.2 Remove isolations, according to standard operating or organisational procedures 2.3 Set and confirm operational settings 2.4 Complete pre-start check ups 2.5 Check and confirm operation of monitoring devices 2.6 Identify and rectify faults 2.7 Communicate startup to relevant personnel
3. Start up dry end operations	3.1 Coordinate and implement startup for dry end operations 3.2 Confirm system functions by monitoring plant, equipment and control system and display monitors 3.3 Communicate process operations to relevant personnel
4. Establish startup at dry end	4.1 Establish sheet and stabilise through dry end sections to parent reel 4.2 Monitor and adjust systems to rectify variations from specifications 4.3 Adjust and modify to stabilise sheet quality within specifications 4.4 Record production startup, system operation, production and quality data

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	Read and interpret documentation, procedure manuals and test results

Skill	Description
Writing	Record operations and stabilisations accurately and legibly using correct technical vocabulary
Numeracy	Interpret instruments, gauges and data recording equipment
Navigate the world of work	- Access, navigate and enter computer based information - Use electronic and other control systems to control equipment and processes for dry end operations
Get the work done	- Maintain situational awareness in the work area - Analyse and use sensory information to adjust process to maintain and coordinate safety, quality and productivity

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
PPMDEO320 Prepare and start up dry end operations Release 2	PPMDEO320 Prepare and start up dry end 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.gov.au/Pages/TrainingDocs.aspx?q=12998f8d-d0ac-40bc-a69e-72a600d4fd93>

Assessment Requirements for PPMDEO320 Prepare and start up 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 evidence that the individual has:

- prepared and started up dry end operations, at least twice in line with required enterprise intervals
- identified and actioned problems within level of responsibility
- identified and monitored process control points
- planned and organised startups
- monitored and adjusted systems to rectify variations from specifications
- used and interpreted electronic control systems, including digital control system (DCS), touch screens or robotics to control equipment and processes during operations
- reported on operational data
- communicated effectively, through written and verbal means, and working safely with others, in the work area when undertaking dry 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:

- 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
- documentation and procedures relevant to dry end operations in the pulp and paper industry including:
 - standard operating procedures (SOP)
 - production needs including output targets, production scheduling quality requirements, resources and energy use, waste minimisation
 - quality procedures
 - environmental sustainability requirements/practices
 - machinery and plant manufacturing operating manuals
 - enterprise policies and procedures
 - safety data sheets
 - plant isolation documentation
 - maintenance logs
 - job sheets
 - site agreements
 - process and instrument diagrams
 - machine manuals
 - troubleshooting guides
 - incident reports
- materials and their uses in dry end operations including:
 - chemicals
 - compressed air
 - water
 - electricity
 - gas
 - steam
 - additives
 - machine clothing
 - ropes and belts
- dry end operations including:
 - drying processes
 - reeling operations
 - chemical additive system
 - monitoring systems
 - sheet treatment processes
 - tail feed systems
 - broke system
 - on-line coating systems

- calendering systems
- vacuum systems
- laser systems
- slitter systems
- sheet transfer systems
- accumulator
- cleaning showers
- dry end plant, processes, layout and associated services sufficient to carry out startup activities
- electronic and other control systems, operation and application to make appropriate adjustments that control the dry end.

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 equipment involved in integrated continuous manufacturing of dry end operations in a pulp or paper manufacturing facility
 - electronic control systems which includes DCS, touch screens or robotics required to start up dry end systems
 - PPE required for operating dry end systems
- specifications:
 - applicable workplace health and safety and isolation work place procedures, environmental guidelines and safe working requirements, risks and hazard identification and workplace housekeeping requirements
 - sample workplace documentation, procedures and reports relevant to dry end operations including SOP, quality procedures, environmental sustainability requirements/practices, plant manufacturing operating manuals, enterprise policies and procedures, oil or chemical spills and disposal guidelines, plant isolation documentation, safe work documentation.

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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