



Australian Government

PPMDEO330 Coordinate and implement dry end shutdown

Release: 2

PPMDEO330 Coordinate and implement dry end shutdown

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 outcomes required to implement, assess and record dry end shutdowns in the pulp and paper industry.

This unit applies to operators and technicians who coordinate and implement dry end shutdown, in a pulp and paper manufacturing facility. This typically involves working in a facility with 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. Implement planned shutdown procedures	1.1 Coordinate planned shutdown of dry end operations from work area instructions or maintenance schedules

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 Manage plant or system shutdown in accordance with productivity requirements, relevant workplace health and safety procedures, risks and hazards identification and environmental workplace procedures 1.3 Check equipment during shutdown 1.4 Implement isolation requirements, according to standard operating procedures and housekeeping requirements 1.5 Communicate shutdown information to relevant personnel 1.6 Select, fit, use and maintain personal protective equipment according to job requirements and task to be undertaken
2. Assess causes and effects of unplanned shutdown	2.1 Respond to and rectify unplanned shutdown 2.2 Identify and locate cause of unplanned shutdown 2.3 Assess the effects of unplanned shutdown to determine impact on operations
3. Record and report shutdown information	3.1 Record shutdown information, including corrective action 3.2 Report shutdown information 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	Read and interpret diagrams, documentation, procedure manuals and test results when undertaking shutdown
Writing	- Complete forms and records accurately and legibly using correct technical vocabulary - Access, navigate and enter computer based information
Oral communication	Select and use appropriate spoken communication strategies with work colleagues and other personnel on site
Numeracy	Interpret instruments, gauges and data recording equipment during shutdown
Navigate the world of	Use electronic and other control systems to control equipment and processes for shutdowns

Skill	Description
work	
Problem solving	• 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
PPMDEO330 Coordinate and implement dry end shutdown Release 2	PPMDEO330 Co-ordinate and implement dry end shutdown Release 1	Performance criteria added, minor changes to knowledge evidence, grammatical adjustment to title	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 PPMDEO330 Coordinate and implement dry end shutdown

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.

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:

- assessed, implemented and recorded dry end shutdowns, at least twice in line with required enterprise intervals
- coordinated and implemented dry end shutdowns from work area instructions and safety procedures
- assessed causes of unplanned shutdowns
- used and interpreted electronic control systems, including digital control system, touch screens or robotics to control equipment and processes during shutdowns
- reported on operational data relevant to shutdowns
- communicated effectively, through written and verbal means, and working safely with others, in the work area when undertaking dry end shutdowns.

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
- documentation and procedures relevant to dry end shutdowns in the pulp and paper industry including:
 - standard operating procedures
 - productivity requirements and quality
 - environmental sustainability requirements
 - machinery and plant manufacturing operating manuals
 - confined space requirements
 - safety data sheets
 - plant isolation and safe work documentation requirements
 - maintenance logs, job sheets, site agreements
 - process and instrument diagrams
- types of materials and their uses in dry end operations including:
 - chemicals
 - compressed air
 - water
 - electricity
 - gas
 - steam
 - additives
 - machine clothing
 - ropes and belts
- hazards and risks identification including:
 - steam and/or gas leaks
 - fires
 - nip points
 - compressed air
 - hot surfaces
 - electrical entanglement
 - slip hazards/falls
 - energy
 - pressures
 - chemicals
 - fumes
 - confined spaces
 - dust
- responses to all unplanned shutdowns (power outage, mechanical breakdown, blockages, jamming, air supply, control system failure) to ensure safety quality and productivity
- 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 shutdown activities
- electronic and other control systems, operation and application to make appropriate adjustments that control the dry end, within level of responsibility.

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 systems in a pulp or paper manufacturing facility
 - electronic screens and alarms, process control systems, analogue and digital instrumentation for dry end systems
 - equipment, machinery and resources to coordinate the shutdown of dry end systems
 - PPE required for operating dry end system shutdowns
 - relevant personnel for the purposes of communicating information
- specifications:
 - applicable workplace health and safety and isolation workplace procedures, environmental guidelines and safe working requirements, risks and hazard identification and workplace housekeeping requirements.

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

Links

Companion Volumes, including Implementation Guides, are available at VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=12998f8d-d0ac-40bc-a69e-72a600d4fd93>