



Australian Government

PPMPUL330 Coordinate and implement pulping plant shutdowns

Release: 2

PPMPUL330 Coordinate and implement pulping plant shutdowns

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 coordinate and implement pulping plant shutdowns (both planned and unplanned) in the pulp and paper industry.

This unit applies to operators and technicians who coordinate and implement pulping plant shutdowns, in a pulp or paper manufacturing facility. This typically involves working in a facility with 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

Pulping operations (PUL)

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. Coordinate and implement planned shutdowns	1.1 Coordinate planned and scheduled shutdown using work instructions and related planned maintenance information 1.2 Assess the impact of planned shutdown on operations and productivity

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Communicate shutdown information to relevant personnel according to standard operating procedures (SOP) 1.4 Shutdown and isolate equipment and process according to SOP 1.5 Select, fit, use and maintain personal protective equipment according to job requirements and task to be undertaken
2. Respond to unplanned shutdowns	2.1 Respond to unplanned faults and stoppages according to SOP, emergency and workplace health and safety procedures 2.2 Complete shutdown and isolation according to SOP 2.3 Locate and rectify cause of unplanned shutdown within area of responsibility according to SOP 2.4 Communicate shutdown information to relevant personnel
3. Record and report shutdown information	3.1 Record shutdown information, including corrective action according to SOP/organisational requirements 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	Interpret shutdown documentation, including SOP, manuals, checklists, drawings and signage
Writing	Record shutdown information via electronic and standard written proformas
Oral communication	Communicate pulping plant shutdown phases by radio, telephone and face to face
Numeracy	Interpret control system data and information to shutdown and isolate equipment and processes and to locate faults and other causes of unplanned shutdowns
Get the work done	- Maintain situational awareness in work area - Rectify faults and other causes of unplanned shutdowns - Use systematic approach to planning shutdown activity,

Skill	Description
	identifying requirements for each stage

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
PPMPUL330 Coordinate and implement pulping plant shutdowns Release 2	PPMPUL330 Co-ordinate and implement pulping plant shutdowns 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 PPMPUL330 Coordinate and implement pulping plant shutdowns

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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:

- coordinated and implemented shutdowns at least twice in line with required enterprise intervals, for at least one of the following areas:
 - bleaching plant operations
 - refining
 - chip preparation
 - cleaning or washing systems
 - chemical preparation and treatment
 - pulp lapping production
 - digester operations
- responded to unplanned shutdowns
- operated control systems to shut down and isolate equipment and processes
- located and rectified problems associated with shutdowns to ensure safety quality and productivity
- recorded and reported shutdown information verbally and in writing
- demonstrated safe use and handling of chemicals and materials when implementing pulping plant 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
- pulping plant, processes, layout and associated services to carry out planned shutdown activities within level of responsibility
- reasons for planned or scheduled pulping plant shutdowns
- causes of unplanned shutdowns including:
 - power outage
 - mechanical breakdown
 - blockages
 - jamming
 - air supply
 - control system failure
- required responses to unplanned shutdowns to ensure safety, quality and productivity
- productivity considerations including:
 - waste minimisation
 - delay minimisation
 - chemical recovery maximisation
 - line speed
 - handovers
 - quality checks
 - output targets
- workplace process and procedures for plant shutdowns and unplanned shutdowns
- pulping plant and machinery functions and operations
- workplace emergency procedures and responses relevant to pulping plants
- process control operations related to planned and unplanned shutdowns.

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 chemicals and equipment required to coordinate and implement the shutdown of pulping operations in a pulp or paper manufacturing facility
- test and diagnostic equipment
- PPE required for implementing pulping plant shutdowns
- specifications:
 - template documents for recording shutdown information.

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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