



Australian Government

PPMREC330 Coordinate and implement chemical recovery shutdowns

Release: 2

PPMREC330 Coordinate and implement chemical recovery 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 implement, assess and record chemical recovery shutdowns, in a pulp or paper manufacturing facility.

The unit applies to production operators and technicians who coordinate and implement chemical recovery shutdowns in a pulp and paper manufacturing facility. This typically involves working in a facility 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

Chemical recovery operations (REC)

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. Assess causes and effects of shutdown	1.1 Coordinate planned shutdown of chemical recovery processes from work area instructions or maintenance schedules 1.2 Assess plant or system shutdown in accordance with productivity requirements, relevant work health and safety procedures, risks and

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	hazards identification and environmental workplace procedures 1.3 Identify and locate cause of unplanned shutdown 1.4 Assess effects of unplanned shutdown to determine impact on operations 1.5 Communicate unplanned shutdown, according to organisational procedures 1.6 Select, fit, use and maintain personal protective equipment according to job requirements and task to be undertaken
2. Implement shutdown procedures	2.1 Implement planned shutdown in accordance with work health and safety and standard operating procedures (SOP) and check chemicals and equipment 2.2 Respond to and rectify unplanned shutdown 2.3 Implement isolation requirements, according to SOP and housekeeping requirements 2.4 Communicate shutdown information to relevant personnel, as required
3. Record and report shutdown data	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 specifications, procedure manuals and test results
Writing	- Record and report test results and rectifications 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 during shutdowns
Numeracy	Interpret instruments, gauges and data recording equipment

Skill	Description
	• Use measuring equipment, with chemicals, as required
Navigate the world of work	• Use electronic and other control systems to control equipment and processes and make appropriate adjustments for shutdowns
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
PPMREC330 Coordinate and implement chemical recovery shutdowns Release 2	PPMREC330 Co-ordinate and implement chemical recovery 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 PPMREC330 Coordinate and implement chemical recovery 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 chemical recovery shutdowns, at least twice in line with required enterprise intervals, including:

- assessed causes of unplanned shutdowns
- identified and rectified faults in processes and plant, relevant to chemical recovery operations, during shutdowns
- used and interpreted electronic control systems, including digital control system, touch screens or robotics to control equipment and processes as required during shutdowns
- communicated effectively and work safely with others, in the work area, when undertaking chemical recovery 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
- chemical recovery plant, processes, layout and associated services to carry out shutdown activities, within level of responsibility
- chemical recovery processes and associated services sufficient to monitor and control operations
- electronic and other control systems, operation and application to make appropriate adjustments that control the chemical recovery operations 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 chemicals and equipment required to coordinate and implement the shutdown of chemical recovery operations in a pulp or paper manufacturing facility
 - PPE required for operating chemical recovery systems
 - pumps and transfer equipment
 - mechanical, hydraulic and electrical systems
 - process monitoring and management equipment.

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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