

**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.

<b>PPMREC210</b>	<b>Monitor and control chemical recovery operations</b>
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to identify, monitor, control and report on chemical recovery processes and operations, in a pulp or paper manufacturing facility.</p> <p>The unit applies to production support operators who monitor and control chemical recovery processes and operations. This typically involves working in a facility with complex integrated equipment and continuous operations.</p> <p>No licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
<b>Prerequisite Unit</b>	Nil
<b>Unit Sector</b>	Pulp and Paper Manufacturing

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. Monitor and control processes	1.1 Check production requirements at the start of the shift, and plan to carry out tasks in line with relevant workplace health and safety procedures, risks and hazards identification and environmental workplace procedures 1.2 Confirm operational status of chemical recovery processes by inspection, observations and other information 1.3 Monitor and control supplies of chemicals and supply systems to ensure availability and suitability 1.4 Conduct chemical recovery sampling and testing 1.5 Monitor and control production and by-product storage 1.6 Monitor and control process variables to ensure efficient operation 1.7 Carry out operator level preventative maintenance schedules, according to organisational procedures 1.8 Monitor and control discharges 1.9 Select, fit, use and maintain personal protective equipment according to job requirements and task to be undertaken
2. Monitor and maintain plant	2.1 Identify process problems and equipment faults and rectify within level of responsibility 2.2 Undertake plant inspections to optimise plant performance 2.3 Adjust processes and equipment to optimise production and quality schedules and to comply with environmental licences
3. Record and document performance data	3.1 Interpret and record process and plant data. 3.2 Report process problems and equipment faults 3.3 Communicate problems or variations with systems or product to relevant personnel 3.4 Document hazardous conditions and communicate to relevant personnel 3.5 Record and report problems with environmental releases according to organisational procedures

<b>Foundation Skills</b>	
<i>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.</i>	
<b>Skill</b>	<b>Description</b>
Reading	<ul style="list-style-type: none"> <li>Interpret specifications, procedure manuals and test results.</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Record and report test results and rectifications accurately and legibly using correct technical vocabulary</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>Select and use appropriate spoken communication strategies with work colleagues and other personnel on site when monitoring chemical recovery operations</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Interpret instruments, gauges and data recording equipment</li> <li>Use measuring equipment</li> </ul>
Navigate the world of work	<ul style="list-style-type: none"> <li>Access, navigate and enter computer based information</li> <li>Use electronic and other control systems to control equipment and processes and make appropriate adjustments for chemical recovery operations</li> </ul>
Get the work done	<ul style="list-style-type: none"> <li>Maintain situational awareness in the work area</li> <li>Analyse and use sensory information to adjust process to maintain safety, quality and productivity</li> </ul>

<b>Unit Mapping Information</b>			
<b>Code and title current version</b>	<b>Code and title previous version</b>	<b>Comments</b>	<b>Equivalence status</b>
PPMREC210 Monitor and control chemical recovery operations Release 2	PPMREC210 Monitor and control chemical recovery operations Release 1	Performance criteria added, minor changes to knowledge evidence	Equivalent Unit

<b>Links</b>	Companion Volumes, including Implementation Guides, are available at VETNet: <a href="http://www.skillsimpact.com.au/pulp-and-paper/skills-standards-and-qualifications/">http://www.skillsimpact.com.au/pulp-and-paper/skills-standards-and-qualifications/</a>
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<b>TITLE</b>	<b>Assessment requirements for PPMREC210 Monitor and control chemical recovery operations</b>
<b>Performance Evidence</b>	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that the individual has:</p> <ul style="list-style-type: none"> <li>• monitored and controlled chemical recovery operations, at least twice in line with required enterprise intervals</li> <li>• monitored chemical processes and plant operations within required parameters</li> <li>• identified and rectified faults in processes and plant, relevant to chemical recovery operations</li> <li>• identified and actioned problems relevant to chemical recovery processes and operations within level of responsibility</li> <li>• used and interpreted electronic control systems, including digital control system, touch screens or robotics to control equipment and processes, as required during operations</li> <li>• communicated effectively and worked safely with others, in the work area when controlling chemical recovery operations.</li> </ul>	
<b>Knowledge Evidence</b>	
<p>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:</p> <ul style="list-style-type: none"> <li>• organisational procedures relevant to workplace health and safety with particular emphasis on: <ul style="list-style-type: none"> <li>• use of personal protective equipment (PPE)</li> <li>• equipment lock out and isolation procedures</li> <li>• handling chemicals and hazardous substances, including spill and disposal guidelines</li> <li>• plant clearance requirements</li> <li>• emergency procedures and responses</li> <li>• job safety analysis documentation and processes</li> <li>• plant permit systems and processes</li> <li>• high risk load shifting licensing requirements where relevant</li> <li>• major hazard facility requirements where relevant</li> </ul> </li> <li>• productivity requirements</li> <li>• chemical recovery plant, processes, layout and associated services including operating parameters, variation and associated adjustments, within level of responsibility</li> <li>• electronic and other control systems, operation and application to make appropriate adjustments that control the chemical recovery operations within level of responsibility.</li> </ul>	
<b>Assessment Conditions</b>	
<p>Assessment of skills must take place under the following conditions:</p> <ul style="list-style-type: none"> <li>• physical conditions: <ul style="list-style-type: none"> <li>• a workplace or a productive environment that accurately reflects performance in a workplace</li> </ul> </li> <li>• resources, equipment and materials: <ul style="list-style-type: none"> <li>• access to the full range of chemicals and equipment required to monitor and control chemical recovery operations in a pulp or paper manufacturing facility</li> <li>• fully automated, semi-automated, manually operated plant and equipment for the monitoring of chemical recovery operations</li> <li>• PPE required for operating chemical recovery systems.</li> </ul> </li> </ul> <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
<b>Links</b>	Companion Volume implementation guides are found in VETNet - <a href="https://vetnet.education.gov.au/Pages/TrainingPackages.aspx/Pages/Home.aspx">https://vetnet.education.gov.au/Pages/TrainingPackages.aspx/Pages/Home.aspx</a>