Modification history

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| Release | Comments |
| Release 1 | Replaces equivalent unit FPPREC210A Monitor and control chemical recovery operations, which was first released with FPP10 Pulp and Paper Manufacturing Industry Training Package Version 1.0.  This is the first release of this unit in the new standards format. |
| Release 2 | Updates to knowledge evidence. |

| PPMREC210 | Monitor and control chemical recovery operations |
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| Application | This unit of competency describes the outcomes required to identify, monitor, control and report on chemical recovery processes and operations, in a pulp or paper manufacturing facility.  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.  Licensing, legislative, regulatory, or certification requirements apply to this unit in some states and territories at the time of publication and may differ according to jurisdiction. |
| Prerequisite Unit | Nil |
| Unit Sector | Pulp and Paper Manufacturing |

| Elements | Performance Criteria |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Monitor and control processes | 1.1 Check production requirements at the start of the shift, in accordance with productivity requirements, relevant workplace health and safety (WHS) 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 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, if required.  1.8. Monitor and control discharges. |
| 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 as required. |

| 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. | |
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| Skill | Description |
| Numeracy skills to: | * interpret instruments, gauges and data recording equipment * use measuring equipment |
| Oral communication skills to: | * select and use appropriate spoken communication strategies with work colleagues and other personnel on site when monitoring chemical recovery operations. |
| Reading skills to: | * read and interpret specifications, procedure manuals and test results. |
| Writing skills to: | * record and report test results and rectifications accurately and legibly using correct technical vocabulary. |
| Problem solving skills to: | * maintain situational awareness in the work area * analyse and use sensory information to adjust process to maintain safety, quality and productivity. |
| Technology skills to: | * access, navigate and enter computer based information * use electronic and other control systems to control equipment and processes and make appropriate adjustments for chemical recovery operations. |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| PPMREC210 Monitor and control chemical recovery operations | FPPREC210A Monitor and control chemical recovery operations |  | E |

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| Links | Companion Volumes, including Implementation Guides, are available at VETNet:  http://www.skillsimpact.com.au/pulp-and-paper/skills-standards-and-qualifications/ |

| TITLE | Assessment requirements for PPMREC210 Monitor and control chemical recovery operations |
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| Performance Evidence | |
| A person demonstrating competency in this unit must satisfy all of the elements and performance criteria of this unit, and must be able to provide evidence that they can:   * monitor and control chemical recovery operations, at least twice in line with required enterprise intervals, and involving the following tasks: * monitor chemical processes and plant operations within required parameters * identify and rectify faults in processes and plant, relevant to chemical recovery operations * identify and action problems relevant to chemical recovery processes and operations, in a pulp or paper mill, within level of responsibility * use and interpret electronic control systems, including Digital Control System (DCS), touch screens or robotics to control equipment and processes, as required during operations * communicate effectively and work safely with others, in the work area when controlling chemical recovery operations. | |

| Knowledge Evidence |
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| 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 * productivity requirements * chemical recovery plant, processes, layout and associated services including operating parameters, variation and associated adjustments, within level of responsibility * electronic and other control systems, operation and application to make appropriate adjustments that control the chemical recovery operations within level of responsibility |

| Assessment Conditions |
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| The following resources must be made available:   * access to the full range of chemicals and equipment required to monitor and control chemical recovery operations in a pulp or paper manufacturing facility * fully automated, semi-automated, manually operated plant and equipment for the monitoring of chemical recovery operations * relevant personnel for the purposes of communicating information * personal protective equipment required for operating chemical recovery systems.   Competency is to be assessed in the workplace or in a productive environment that accurately reflects performance in a workplace.  Assessor requirements  Assessors must:   * hold the appropriate assessor competency standards as outlined in regulations; * be able to demonstrate vocational competencies at least to the level being assessed; and * be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence. |

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| Links | Companion Volume implementation guides are found in VETNet - https://vetnet.education.gov.au/Pages/TrainingPackages.aspx/Pages/Home.aspx |