Modification history

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| Release | Comments |
| Release 1 | This version released with PPM Training Package Version 1.0. |

| PPMREC330 | Co-ordinate and implement chemical recovery shutdowns |
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| Application | This unit of competency describes the outcomes 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 co-ordinate 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.  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 (PPM) |

| 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. Assess causes and effects of shutdown | 1.1. Co-ordinate 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 workplace health and safety (WHS) procedures, risks and 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, as required |
| 2. Implement shutdown procedures | 2.1. Implement planned shutdown and check chemicals and equipment.  2.2. Respond to and rectify unplanned shutdown.  2.3. Implement isolation requirements, according to standard operating procedures (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. | |
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| Skill | Description |
| Numeracy skills to: | * interpret instruments, gauges and data recording equipment * use measuring equipment, with chemicals, as required. |
| Oral communication skills to: | * select and use appropriate spoken communication strategies with work colleagues and other personnel on site during shutdowns. |
| 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 * access, navigate and enter computer based information. |
| Problem solving skills to: | * maintain situational awareness in the work area * analyse and use sensory information to adjust process to maintain and co-ordinate safety, quality and productivity. |
| Technology skills to: | * use electronic and other control systems to control equipment and processes and make appropriate adjustments for shutdowns |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| PPMREC330 Co-ordinate and implement chemical recovery shutdowns | FPPREC330A Co-ordinate and implement chemical recovery shutdowns |  | Equivalent unit |

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

| TITLE | Assessment requirements for PPMREC330 Co-ordinate and implement chemical recovery shutdowns |
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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:   * co-ordinate and implement chemical recovery shutdowns, at least twice in line with required enterprise intervals, in a pulp or paper manufacturing facility * assess causes of unplanned shutdowns * identify and rectify faults in processes and plant, relevant to chemical recovery operations, during shutdowns * use and interpret electronic control systems, including Digital Control System (DCS), touch screens or robotics to control equipment and processes as required during shutdowns * communicate effectively and work safely with others, in the work area, when undertaking chemical recovery shutdowns. | |

| Knowledge Evidence |
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| A person competent in this unit must be able to demonstrate 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 |
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| The following resources must be made available:   * access to the full range of chemicals and equipment required to co-ordinate and implement the shutdown of chemical recovery operations in a pulp or paper manufacturing facility * personal protective equipment required for operating chemical recovery systems * pumps and transfer equipment * mechanical, hydraulic and electrical systems * process monitoring and management equipment * relevant personnel for the purposes of communicating information.   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; and * 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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