Modification history

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

| PPMPUL330 | Co-ordinate and implement pulping plant shutdowns |
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| Application | This unit of competency describes the outcomes required to co-ordinate and implement pulping plant shutdowns (both planned and unplanned) in the pulp and paper industry.  This unit applies to operators and technicians who co-ordinate 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. |
| 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. Co-ordinate and implement planned shutdowns | 1.1. Co-ordinate planned and scheduled shutdown using work instructions and related planned maintenance information.  1.2. Assess the impact of planned shutdown on operations and productivity.  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. |
| 2. Respond to unplanned shutdowns | 2.1. Respond to unplanned faults and stoppages according to SOP, emergency and work health and safety (WHS) 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 shu tdown information, including corrective action as required.  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 |
| Learning skills to: | * use systematic approach to planning shutdown activity, identifying requirements for each stage. |
| Numeracy skills to: | * interpret control system data and information to shutdown and isolate equipment and processes and to locate faults and other causes of unplanned shutdowns |
| Oral communication skills to: | * communicate pulping plant shutdown phases by radio, telephone and face to face. |
| Reading skills to: | * interpret shutdown documentation, including SOPs, manuals, checklists, drawings and signage |
| Writing skills to: | * record shutdown information via electronic and standard written proformas. |
| Problem solving skills to: | * maintain situational awareness in work area * to rectify faults and other causes of unplanned shutdowns. |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| PPMPUL330 Co-ordinate and implement pulping plant shutdowns | FPPPUL330A Co-ordinate and implement pulping plant 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 PPMPUL330 Co-ordinate and implement pulping plant 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 shutdowns in the pulping plant, 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. * respond to unplanned shutdowns * operate control systems to shutdown and isolate equipment and processes * locate and rectify problems associated with shutdowns to ensure safety quality and productivity * record and report shutdown information verbally and in writing. * demonstrate safe use and handling of chemicals and materials when implementing pulping plant 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 * 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 |
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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 pulping operations in a pulp or paper manufacturing facility * test and diagnostic equipment * personal protective equipment required for implementing pulping plant shutdowns * template documents for recording shutdown information * 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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