Modification history

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

| PPMWEO320 | Prepare and start up wet end operations |
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| Application | This unit of competency describes the outcomes required to determine production requirements, prepare and establish start up wet end operations in the pulp and paper industry.  This unit applies to production operators and technicians who prepare and start up wet end operations, in a pulp or 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. |
| 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. Determine production requirements | 1.1. Confirm planned production requirements and communicate to relevant personnel according to workplace documentation and procedures, work health and safety (WHS) procedures, productivity requirements and standard operating procedures (SOP).  1.2. Confirm availability of machine supplies. |
| 2. Inspect and prepare systems for startup | 2.1. Inspect systems for wet end operations.  2.2. Remove isolations as required.  2.3. Make and confirm operational settings.  2.4. Complete pre-startup checks.  2.5. Check monitoring devices and systems to confirm they are operational.  2.6. Rectify identified faults or take appropriate actions.  2.7. Confirm startup details and communicate to relevant personnel. |
| 3. Startup wet end operations | 3.1. Activate systems for start up and confirm they are operational.  3.2. Coordinate and implement equipment start ups.  3.3. Confirm systems functions by monitoring plant, equipment and controlling system/display monitors.  3.4. Communicate process operation to relevant personnel.  3.5. Document production start up details, according to SOPs. |
| 4. Establish startup at wet end | 4.1. Establish sheet at wet end.  4.2. Monitor and adjust process, as required.  4.3. Document system operation, production and quality data, as required, according to SOPs. |

| 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: | * monitor and interpret instruments, gauges and data recording equipment. |
| Oral communication skills to: | * speak clearly and directly when working with colleagues in the wet area, in preparing and starting up operations. |
| Reading skills to: | * read and interpret documentation, procedure manuals and reports. |
| Writing skills to: | * log and record production start up and process details, 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 output. |
| Technology skills to: | * use electronic and other control systems to control equipment and processes. |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| PPMWEO320 - Prepare and start up wet end operations | FPPWEO320A Prepare and start up wet end operations |  | 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 PPMWEO320 - Prepare and start up wet end 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:   * prepare and start up wet end operations, at least twice in line with required enterprise intervals, in the pulp and paper industry by: * identifying and actioning planned production requirements and following workplace documentation and procedures * undertaking inspections and pre startup checks and confirming that materials, supplies, equipment and personnel are available * activating startup systems and operations * monitoring and adjusting systems, through inspections and rectifying variations from specifications * using and interpreting electronic control systems, including digital control system (DCS), touch screens or robotics to control equipment and processes during operations * reporting on operational data * communicating effectively, through written and verbal means, in the work area. | |

| 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 * documentation and procedures relevant to wet end operations in the pulp and paper industry including: * standard operating procedures (SOP) and housekeeping * production instructions, productivity requirements and quality procedures * environmental sustainability requirements and practices * machinery and plant manufacturing operating manuals * enterprise policies and procedures * safety data sheets (SDS) * maintenance logs, job sheets * site agreements * confined space requirements * site policy and procedures * maintenance logs, job sheets and operating logs * systems relating to wet end operations * hazards and risks including steam and/or gas leaks, fires, nip points, compressed air, hot surfaces electrical, entanglement, vehicle movement, slip hazards/falls, energy, pressures, chemicals, fumes, dust and confined spaces and how to address them * key features of systems in wet end operations including stock approach systems, forming system, pressing systems and cleaning and screening systems * appropriate materials and supplies and their uses in wet end operations including water, air, stock, chemicals, additives, steam, machine clothing and baled pulp * wet end plant, processes, and layout and associated services sufficient to carry out startup activities |

| Assessment Conditions |
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| The following resources must be made available:   * access to the full range of equipment involved in integrated continuous manufacturing for starting up wet end operations in a pulp or paper manufacturing facility * personal protective equipment required for starting up wet end operations * details of production requirements to plan system operations * template operating log for recording startup processes, operational and product quality data * sample workplace documentation, procedures and reports including SOP, environmental sustainability requirements/practices, plant manufacturing operating manuals, oil or chemical spills and disposal guidelines, plant isolation documentation, safe work documentation * relevant personnel for the purposes of communicating information * organisational workplace health and safety and standard operating procedures for starting up wet end operations.   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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