Modification history

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

| PPMDEO320 | Prepare and start up dry end operations |
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| Application | This unit of competency describes the outcomes required to inspect, prepare and establish start up dry end operations in the pulp and paper industry.  This unit applies to operators and technicians who prepare and start up dry end operations in a pulp and paper manufacturing facility. This work typically involves complex integrated equipment and continuous operations. Dry end operations describe a range of systems and sub systems including drying processes, reeling operations, chemical additive system, monitoring systems, sheet treatment processes, tail feed systems, broke system, on-line coating systems, calendering systems, vacuum systems, laser systems, slitter systems, sheet transfer systems, accumulator, cleaning showers.  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 work health and safety (WHS), production 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 dry end operations.  2.2. Remove isolations, as required.  2.3. Set and confirm operational settings  2.4. Complete pre-start checkups.  2.5. Check and confirm operation of monitoring devices  2.6. Identify and rectify results.  2.7. Communicate start up to relevant personnel. |
| 3. Start up dry end operations | 3.1. Coordinate and implement start up for dry end operations.  3.2. Confirm system functions by monitoring plant, equipment and control system and display monitors.  3.3. Communicate process operations to relevant personnel. |
| 4. Establish startup at dry end | 4.1. Establish sheet and stabilise through dry end sections to parent reel.  4.2. Monitor and adjust systems to rectify variations from specifications.  4.3. Adjust and modify to stabilise sheet quality within specifications.  4.4. Record production start up, system operation, production and quality data. |

| 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. |
| Reading skills to: | * read and interpret documentation, procedure manuals and test results. |
| Writing skills to: | * record operations and stabilizations 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 and co-ordinate 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 for dry end operations. |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| PPMDEO320 Prepare and start up dry end operations | PPMDEO320A Prepare and start up dry 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 PPMDEO320 Prepare and start up dry 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 dry end operations, at least twice in line with required enterprise intervals, by: * identifying and actioning problems within level of responsibility * identifying and monitoring process control points * planning and organising startups * monitoring and adjusting systems to rectify 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, and working safely with others, in the work area when undertaking dry end operations. | |

| 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 licensing requirements where relevant * documentation and procedures relevant to dry end operations in the pulp and paper industry including: * Standard Operating Procedures (SOP) * production needs including output targets, production scheduling quality requirements, resources and energy use, waste minimisation * quality procedures * environmental sustainability requirements/practices * machinery and plant manufacturing operating manuals * enterprise policies and procedures * Material Safety Data Sheets (MSDS) * plant isolation documentation * maintenance logs * job sheets * site agreements * process and instrument diagrams * machine manuals * troubleshooting guides * incident reports * materials and their uses in dry end operations including: * chemicals * compressed air * water * electricity * gas * steam * additives * machine clothing * ropes and belts * dry end operations including drying processes, reeling operations, chemical additive system, monitoring systems, sheet treatment processes, tail feed systems, broke system, on-line coating systems, calendering systems, vacuum systems, laser systems, slitter systems, sheet transfer systems, accumulator and cleaning showers * dry end plant, processes, layout and associated services sufficient to carry out startup activities * electronic and other control systems, operation and application to make appropriate adjustments that control the dry end |

| 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 of dry end operations in a pulp or paper manufacturing facility * electronic control systems which includes Digital Control System (DCS), touch screens or robotics required to start up dry end systems * applicable work health and safety (WHS) and isolation work place procedures, environmental guidelines and safe working requirements, risks and hazard identification and workplace housekeeping requirements * personal protective equipment required for operating dry end systems * relevant personnel for the purposes of communicating information * sample workplace documentation, procedures and reports relevant to dry end operations including SOP, quality procedures, environmental sustainability requirements/practices, plant manufacturing operating manuals, enterprise policies and procedures, oil or chemical spills and disposal guidelines, plant isolation documentation, safe work documentation.   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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