Modification history

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

| PPMCPP320 | Prepare and start up coated paper processes |
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| Application | This unit of competency describes the outcomes required to prepare and start up coated paper processes in the pulp and paper industry.  This unit applies to production operators and technicians who determine the production requirements, prepare and co-ordinate start-up operations and then establish and stabilise the system, 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. Access and interpret production plan.  1.2. Confirm grade specifications and limits and communicate to relevant personnel.  1.3. Determine process requirements according to standard operating procedures (SOP).  1.4. Confirm process supplies are available for production.  1.5. Determine chemical and material requirements. |
| 2. Inspect and prepare systems for startup | 2.1. Remove isolations according to housekeeping requirements.  2.2. Complete pre-startup checks on equipment in line with work health and safety (WHS), environmental and safe working requirements and practices.  2.3. Confirm electrical power and process supplies as available for production.  2.4. Prepare chemical and material delivery system for operation.  2.5. Confirm operational settings within specification.  2.6. Confirm production ready status with relevant personnel.  2.7. Check monitoring devices and systems and confirm as operational.  2.8. Identify faults and rectify as required. |
| 3. Co-ordinate startup operations | 3.1. Co-ordinate equipment startups for production.  3.2. Co-ordinate and confirm system functions by monitoring plant, equipment and control system/display monitors.  3.3. Communicate process operation status to relevant personnel.  3.4. Log, record and file production startup details. |
| 4. Stabilise production process after startup | 4.1. Monitor processes and adjust to rectify variations from specification.  4.2. Make adjustments/modifications to stabilise coating quality within specification.  4.3. Take samples as required to ensure product quality requirements are met.  4.4. Verify product tests as within specification.  4.5. Record process 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 |
| Learning skills to: | * identify chemical hazard, safe usage and disposal for chemical delivery system inputs. |
| Numeracy skills to: | * use measuring equipment for chemical and material delivery requirements * interpret instruments, gauges and data recording equipment. |
| Oral communication skills to: | * communicate operational requirements to relevant personnel * respond to control systems and display alarms. |
| Reading skills to: | * read and interpret test results * interpret required procedures including SOP, chemical hazard and disposal information * interpret control systems and display monitors in accordance with SOP and other specifications. |
| Writing skills to: | * record test results * record system operation and quality data * enter computer-based information to complete process operation, production and quality data. |
| 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. |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| PPMCPP320 Prepare and start up coated paper processes | PPMCPP320A Prepare and start up coated paper processes |  | 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 PPMCPP320 Prepare and start up coated paper processes |
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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 coated paper processes, at least twice in line with required enterprise intervals, for at least one of the following systems: * tail feed systems * chemical and material batching * laminating and coating * splicing * clay plant operation * calender * pre-reeler operations * super calendering * rewinding * drying systems * combine rollers * determine coating production requirements * conduct checks to ensure availability of sheet, coating chemicals and electrical power * conduct checks to ensure space availability for coated sheet * ensure isolations are removed according to standard operating procedures * conduct pre-startup checks of plant and equipment including instrumentation * input operational settings in preparation for startup in according to standard operating procedures * activate and confirm operation of coating system according to standard operating procedures * take samples, conduct tests on product post startup and interpret and record results * make process control adjustments to stabilise production and ensure product quality * conduct routine maintenance checks on equipment. | |

| 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 * information provided on the production specification sheet * working knowledge of coated paper processes, system layout and associated services sufficient to carry out startup activities * interaction requirements within the coating area members and with the area's suppliers and customers * cause and effect of operational equipment faults * sampling and testing process for plant and system operations and process monitoring - purpose, standards and procedures as per site agreements * purpose of each of the steps in the preparation of the coating system for production * purpose of each component of the coating system * purpose and location of the coating chemical supply system * critical control points of the preparation for startup procedure * purpose of the process controls and how changes affect the production variables * critical control points of the startup procedure * critical control points of the monitoring process during startup * electronic and other control systems, operation and application to make appropriate adjustments that control coated paper processes |

| Assessment Conditions |
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| The following resources must be made available:   * access to the full range of equipment involved in coated paper process operations in a pulp or paper manufacturing facility * fully automated, semi-automated, manually operated plant and equipment appropriate to coated paper process operation and related consumables * personal protective equipment required for coated paper system operations * equipment, machinery and resources to prepare and start up coated paper systems * electronic screens and alarms, process control systems, analogue and digital instrumentation for coated paper processes * relevant personnel for the purposes of communicating information * sample workplace documentation on work health and safety (WHS) procedures, risks and hazards identification procedures, environmental and safe working requirements/practices, SOP and housekeeping requirements.   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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