

Modification history

Release	Comments
Release 2	This version released with PPM Pulp and Paper Manufacturing Training Package Version 2.0.
Release 1	This version released with PPM Pulp and Paper Manufacturing Training Package Version 1.0.

PPMCPP320	Prepare and start up coated paper processes
Application	<p>This unit of competency describes the skills and knowledge required to prepare and start up coated paper processes in the pulp and paper industry.</p> <p>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.</p> <p>No licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Pulp and Paper Manufacturing (PPM)

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
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 1.6 Select, fit, use and maintain personal protective equipment according to job requirements and task to be undertaken
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 workplace health and safety, 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 according to SOP
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 and display monitors 3.3 Communicate process operation status to relevant personnel 3.4 Log, record and file production startup details

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
4. Stabilise production process after startup	4.1 Monitor processes and adjust to rectify variations from specification 4.2 Make adjustments or 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	
<i>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.</i>	
Skill	Description
Reading	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Record test results Record system operation and quality data Enter computer-based information to complete process operation, production and quality data
Oral communication	<ul style="list-style-type: none"> Communicate operational requirements to relevant personnel Respond to control systems and display alarms
Numeracy	<ul style="list-style-type: none"> Use measuring equipment for chemical and material delivery requirements Interpret instruments, gauges and data recording equipment
Get the work done	<ul style="list-style-type: none"> Maintain situational awareness in the work area Analyse and use sensory information to adjust process to maintain and co-ordinate safety, quality and productivity

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
PPMCPP320 Prepare and start up coated paper processes Release 2	PPMCPP320 Prepare and start up coated paper processes Release 1	Performance criteria added, minor changes to knowledge evidence	Equivalent unit

Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=12998f8d-d0ac-40bc-a69e-72a600d4fd93
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TITLE	Assessment requirements for PPMCP320 Prepare and start up coated paper processes
Performance Evidence	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria of this unit. There must be evidence that the individual has:</p> <ul style="list-style-type: none"> • prepared and started up coated paper processes, at least twice in line with required enterprise intervals, for at least one of the following systems: <ul style="list-style-type: none"> • 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 • determined coating production requirements • conducted checks to ensure availability of sheet, coating chemicals and electrical power • conducted checks to ensure space availability for coated sheet • ensured isolations are removed according to standard operating procedures (SOP) • conducted pre-startup checks of plant and equipment including instrumentation • input operational settings in preparation for startup in according to SOP • activated and confirm operation of coating system according to SOP • taken samples, conducted tests on product post startup and interpret and record results • made process control adjustments to stabilise production and ensure product quality • conducted routine maintenance checks on equipment 	
Knowledge Evidence	
<p>An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:</p> <ul style="list-style-type: none"> • organisational procedures relevant to workplace health and safety with particular emphasis on: <ul style="list-style-type: none"> • 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 • 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 	

Knowledge Evidence
<ul style="list-style-type: none"> • electronic and other control systems, operation and application to make appropriate adjustments that control coated paper processes

Assessment Conditions
<p>Assessment of skills must take place under the following conditions:</p> <ul style="list-style-type: none"> • physical conditions: <ul style="list-style-type: none"> • a workplace or a productive environment that accurately reflects performance in a workplace • resources, equipment and materials: <ul style="list-style-type: none"> • 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 • PPE 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 • specifications: <ul style="list-style-type: none"> • sample workplace documentation on workplace health and safety procedures, risks and hazards identification procedures, environmental and safe working requirements/practices, SOP and housekeeping requirements. <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>

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