



Australian Government

PPMSPR301 Perform stock preparation operations

Release: 1

PPMSPR301 Perform stock preparation operations

Modification History

Release	Comments
Release 1	This version released with PPM Pulp and Paper Manufacturing Training Package Version 3.0.

Application

This unit of competency describes the skills and knowledge required to prepare for, start up, stabilise and shut down systems for stock preparation operations.

The unit applies to production operators who perform stock preparation operations in a pulp and/or or paper manufacturing facility and respond to contingencies that occur with working with complex integrated equipment and continuous operations.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Stock Preparation Operations (SPR)

Elements and Performance Criteria

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. Prepare for stock preparation operations	1.1 Identify production requirements to plan system operations and processes 1.2 Determine grade type and flow rate for production 1.3 Identify workplace health and safety hazards, assess risks and determine control points and measures 1.4 Determine availability and coordinate process supplies to meet production requirements

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.5 Confirm readiness of downstream facilities to receive product and by-products 1.6 Select, fit and use personal protective equipment according to job requirements and task to be undertaken 1.7 Communicate production requirements and specifications, workplace health and safety and environmental requirements and operating procedures to relevant personnel
2. Inspect and prepare systems for start-up	2.1 Conduct system inspections and pre-start-up safety checks according to workplace health and safety and operating procedures 2.2 Remove isolations and establish and confirm operational settings to required specification 2.3 Check electronic monitoring devices and alarm systems and confirm as operational 2.4 Detect deviations from operational specifications and rectify or report to relevant personnel 2.5 Stage raw materials supplies ready for use
3. Start up and stabilise system operations	3.1 Activate and confirm stock preparation systems as operational 3.2 Coordinate stock, chemical and water system start-ups for production 3.3 Confirm production ready status to relevant personnel 3.4 Monitor operational parameters after start-up to ensure stock system operations are within specification 3.5 Sample and test stock to verify product meets quality specifications 3.6 Adjust system operational parameters to rectify variations from specifications
4. Coordinate and implement planned shutdown	4.1 Coordinate and communicate planned shutdown of stock preparation operations to relevant personnel 4.2 Shut down plant or system according to productivity requirements, workplace health and safety and environmental requirements and operating procedures 4.3 Monitor functionality of equipment during shutdown 4.4 Implement isolation requirements according to operating and housekeeping procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
5. Respond to unplanned shutdowns	5.1 Respond to unplanned faults and stoppages according to operating, emergency and workplace health and safety procedures 5.2 Complete shutdown and isolation according to operating procedures 5.3 Locate and rectify cause of unplanned shutdown within area of responsibility 5.4 Communicate shutdown information to relevant personnel
6. Record and report production information	6.1 Record production and quality data and system operation information according to workplace requirements 6.2 Report problems or variations with production, quality and system 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.

Skill	Description
Reading	Interpret information from workplace procedures and documentation
Writing	Complete records accurately and legibly using clear language and industry terminology
Oral communication	Provide information about start-up and shutdown operations, problems or variations with production, quality and system using clear language and industry terminology
Numeracy	- Interpret numerical settings on instruments, gauges and data recording equipment - Record numerical data for system and operational performance

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
PPMSPR301 Perform stock preparation operations	PPMSPR320 Prepare and start up stock preparation systems for production	Merges two units Changes to unit title, elements, performance criteria, foundation skills, performance evidence and knowledge evidence Assessment conditions updated	Not equivalent
PPMSPR301 Perform stock preparation operations	PPMSPR330 Coordinate and implement stock preparation system shutdown	Merges two units Changes to unit title, elements, performance criteria, foundation skills, performance evidence and knowledge evidence Assessment conditions updated	Not equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=12998f8d-d0ac-40bc-a69e-72a600d4fd93>

Assessment Requirements for PPMSPR301 Perform stock preparation operations

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has planned for, coordinated, and safely started up and shut down stock preparation operations for at least two operational intervals, including for each operational interval:

- determined and monitored process control points
- monitored, assessed causes and adjusted systems to rectify variations from specifications and unplanned shutdown
- used and interpreted electronic control systems during operations
- applied safe use and handling of chemicals and materials
- recorded and reported accurate operational data
- communicated effectively and worked safely with others when undertaking stock preparation operations.

Knowledge Evidence

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:

- workplace and legislative health and safety requirements relevant to performing stock preparation operations, including emergency procedures, handling chemical and hazardous substances, high risk load shifting, licensing requirements, plant clearance and permit systems
- relevant workplace and legislative environmental sustainability requirements and practices for stock preparation operations, including workplace biotechnological applications and processes
- methods used to identify and manage hazards and risks that apply to stock preparation operations
- stock preparation systems and processes, plant layout and associated services relevant to carrying out start-up, stabilising and shutdown activities

- standard operating procedures specific to stock preparation operations
- types, uses and characteristics of raw materials for stock preparation, and how they influence paper properties
- quality requirements for stock preparation
- purpose and processes for, sampling and testing product quality, plant and system operations
- methods used to monitor stock preparation system operations against specified system parameters
- effect of process adjustments on product quality and productivity during operation
- application of electronic and other control systems used to operate, control and make appropriate adjustments to stock preparation operations
- responses used for unplanned shutdowns, including those caused by power outage, mechanical breakdown, blockages, jamming, air supply and control system failure
- procedures for communicating, recording and reporting system operation, production outcomes and equipment faults.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a pulp and/or paper manufacturing facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - stock preparation system and plant
 - maintenance tools and equipment and consumables for stock preparation plant
 - electronic control systems that include digital control system, touch screens or robotics used in stock preparation systems
 - personal protective equipment required for operating stock preparation systems
 - sampling and testing equipment
 - proforma or recording system for recording system and production data and information
- specifications:
 - workplace and standard operating procedures relating to stock preparation operations, including health and safety, risks and hazards identification, plant isolation, quality, housekeeping and environmental requirements
- relationships:
 - relevant personnel for the purposes of communicating information.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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