



Australian Government

PPMDIK301 Perform de-inking operations

Release: 1

PPMDIK301 Perform de-inking 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 de-inking operations.

This unit applies to production operators who perform de-inking operations in a pulp and/or paper manufacturing facility and respond to contingencies that occur 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

De-inking Operations (DIK)

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 de-inking operations	1.1 Identify production requirements and specifications to plan system operations and processes 1.2 Identify workplace health and safety hazards, assess risks and determine control measures 1.3 Identify process control points according to production specifications 1.4 Confirm availability of machine supplies

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 Select, fit and use personal protective equipment according to job requirements and task to be undertaken 1.6 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 Inspect de-inking and electronic control systems for warning signals or alarms 2.2 Remove isolations according to operating procedures 2.3 Set and confirm operational settings according to production requirements and specifications 2.4 Complete pre-start check-ups and confirm operation of monitoring devices 2.5 Identify and rectify common faults or refer complex faults to specialist technician
3. Start up de-inking system	3.1 Coordinate, communicate and implement start-up procedures for de-inking operations 3.2 Confirm system functions by monitoring plant, equipment and control system and display monitors 3.3 Monitor and adjust systems to rectify variations from specifications
4. Implement and monitor system shutdown	4.1 Coordinate and communicate planned shutdown of de-inking operations to relevant personnel 4.2 Shut down plant or system according to productivity, 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
5. Respond to unplanned shutdown	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

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	5.4 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
PPMDIK301 Perform de-inking operations	Not applicable	The unit has been created to address a skill or task required by industry that is not covered by an existing unit	Newly created

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 PPMDIK301 Perform de-inking 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 evidence that the individual has planned for, coordinated, and safely started up and shut down de-inking 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 de-inking 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 de-inking 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 de-inking operations, including workplace biotechnological applications and processes and biomass-derived products
- methods used to identify and manage hazards and risks that apply to de-inking operations
- de-inking systems and processes, plant layout and associated services relevant to carrying out start-up, stabilising and shutdown activities
- standard operating procedures specific to de-inking operations

- types, uses and characteristics of materials and additives used in the de-inking process, and how they influence paper properties
- quality requirements for different types of de-inked stock
- purpose of, and processes for, sampling and testing stock quality, plant and system operations
- methods used to monitor de-inking system operations against specified system parameters
- effect of process adjustments on stock quality and productivity during operation
- application of electronic and other control systems used to operate, control and make appropriate adjustments to de-inking 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 and production data and information.

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:
 - de-inking system and plant
 - maintenance tools and equipment and consumables for de-inking plant
 - electronic control systems that include digital control system, touch screens or robotics used for de-inking systems
 - materials and additives used in de-inking processes
 - testing and diagnostic equipment
 - personal protective equipment required for operating de-inking systems
 - proforma or recording system for recording system and production data and information
- specifications:
 - workplace and standard operating procedures relating to de-inking 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.

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