



Australian Government

Department of Education, Employment and Workplace Relations

FPPWPO210A Monitor and control waste paper operations

Release: 1

FPPWPO210A Monitor and control waste paper operations

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit describes the outcomes required to monitor and control waste paper operations in the pulp and paper industry

General legislation, regulatory, licensing and certification requirements applicable to this unit are detailed in the range statement

Specific high risk and (non-high risk) load shifting licensing requirements for this unit may be applicable and are to be met separately and prior to the achievement of this unit

Application of the Unit

Application of the unit

This unit applies to operators who monitor and control waste paper operations in the pulp and paper industry. This work typically involves complex integrated equipment and continuous operations

This unit generally applies to those who:

- monitor and maintain plant and ancillary operations
- control stock quality and specifications, and
- record and document plant performance data

to meet safety, quality and productivity requirements

It does not include starting up, shutting down or troubleshooting and rectifying waste paper operations

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Not Applicable

Employability Skills Information

Employability skills This unit contains employability skills

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Monitor and maintain plant and ancillary operations	1.1. Plant and ancillary operations are monitored and maintained within Occupational Health and Safety (OHS) regulations, environmental and safe working requirements/practices, Standard Operating Procedures (SOP), and housekeeping requirements 1.2. Production requirements are checked at start of shift to plan the day's activities as required 1.3. Process supplies are maintained to production specifications 1.4. Operational status is confirmed by inspection, observations and other information 1.5. Visual or physical (walk around) inspections of plant and systems are conducted 1.6. Monitoring of screens and gauges is carried out 1.7. Operator level preventative maintenance is carried out as required 1.8. Reject systems are monitored and maintained within operating parameters
2. Control stock quality and specifications	2.1. Control of stock quality and specifications is completed within OHS regulations, environmental and safe working requirements/practices, SOP, and housekeeping requirements 2.2. Conveyor feeds are monitored and maintained for consistent delivery 2.3. Stock quality is monitored by sampling and testing to ensure production requirements are maintained as required 2.4. Modifications to pulp quality or systems operations are made to rectify out-of-specification stock 2.5. Water distribution systems are monitored and maintained
3. Record and document plant performance data	3.1. Recording and documenting of plant performance data is completed within OHS regulations, environmental and safe working requirements/practices, SOP, and housekeeping requirements 3.2. Systems and production data is interpreted and recorded in operations log book or entered into computer system 3.3. Problems or variations with systems or product are communicated to relevant personnel

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This describes the skills and knowledge required for this unit.

Required skills

- Uses required forms of communication in monitoring and controlling waste paper operations
- Reads and interprets required documentation, procedures and reports
- Interprets instruments, gauges and data recording equipment
- Accesses, navigates and enters computer-based information
- Identifies and actions problems within level of responsibility
- Identifies and monitors process control points
- Maintains situational awareness in the work area
- Sets up and operates test equipment
- Takes samples, conducts tests, interprets and records results if required
- Uses measuring equipment as required
- Inspects and maintains equipment and systems to specification
- Operates high risk (and non-high risk) load shifting equipment as required
- Operates and maintains plant within specification
- Analyses and uses sensory information to adjust process to maintain safety, quality and productivity
- Uses electronic and other control systems to control equipment and processes as required

Required knowledge

- Procedures, regulations and legislative requirements relevant to waste paper operation including OHS, environmental including relevant sustainability requirements/practices, SOP, isolation procedures, safe working requirements, risks and hazard identification and housekeeping
- Quality requirements
- Relevant forms of communication
- Roles and responsibilities of relevant personnel and customers
- Basic problem-solving techniques consistent with level of responsibility
- Cause and effects of operational equipment faults
- Working knowledge of waste paper plant, processes, layout and associated services including operating parameters, variation and associated adjustments within level of responsibility
- Purpose and operation of reject system
- Purpose and operation of water systems

REQUIRED SKILLS AND KNOWLEDGE

- Purpose and effects of process variables on production and quality
- Purpose and location of each supply system
- Purpose of the process controls and how changes affect the production variables
- Purpose of each of the steps in the preparation of the waste paper operations system for production
- Purpose of each component of the waste paper operations system
- Sampling and testing process for plant and system operations, and process monitoring - purpose, standards and procedures as per site agreements
- Navigation of computer control system displays
- Application of high risk (and non-high risk) load shifting equipment as required
- Sensory information that indicates a deviation from standard operating parameters
- Sufficient knowledge of electronic and other control systems, operation and application to make appropriate adjustments that control waste paper operations, within level of responsibility

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Evidence should be relevant to the work. It should satisfy the requirements of the elements and performance criteria and include consideration of:

- the required knowledge and skills tailored to the needs of the specific workplace
- applicable OHS regulations, environmental and safe working requirements/practices, SOP and housekeeping requirements
- applicable aspects of the range statement
- practical workplace demonstration of skills in monitoring and controlling waste paper operations

Context of and specific resources for assessment

A workplace assessment must be used to assess:

- the application of required knowledge on the job
- the application of skills on the job, over time and under a range of typical conditions that may be experienced in waste paper operations

Access to the full range of equipment involved in integrated continuous manufacturing of waste paper operations in a pulp or paper mill is required

Method of assessment

A combination of assessment methods should be used. The following examples are appropriate for this unit:

- observation of applied skills and knowledge on the job
- workplace demonstrations via a mock-up or simulation that replicate part/s of the job
- answers to written or verbal questions about specific skills and knowledge
- third-party reports from relevant and skilled personnel
- written evidence e.g. log sheet entries, checklist entries, test results

Assessment processes and techniques must be culturally appropriate and in keeping with the language and literacy capacity of the learner and the work being

EVIDENCE GUIDE

performed. This includes conducting an assessment in a manner that allows thoughts to be conveyed verbally so that the learner can both understand and be understood by the assessor (e.g. use plain English and terminology used on the job)

A holistic assessment with other units relevant to the pulp and paper industry, mill and job role is recommended

Additional information on approaches to assessment for the pulp and paper industry is provided in the Assessment Guidelines for this Training Package

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Productivity requirements may include:

- energy efficiency
- waste minimisation
- evaporation minimisation, including landfill and waste water reduction
- environmentally safe waste disposal
- consideration of resource utilisation, including fibre efficiency
- minimising delays
- chemical recovery maximisation
- meeting key performance indicators
- line speed
- handovers
- quality checks
- meeting output targets i.e. net tonnes per employee per annum
- machine/process time availability i.e. time the machine or process is making product
- machine/process production rate

RANGE STATEMENT

Waste paper operations may include:

- pulping
- screening
- de-watering
- reject systems

Materials and supplies may include:

- waste paper
- air
- chemicals
- broke
- steam
- water
- electricity

Equipment may include:

- broke handling systems
- fork trucks and front end loaders
- cranes
- communication equipment and 2-way radios
- computer systems
- electronic screens and alarms
- process control systems
- analogue and digital instruments
- fully automated, semi-automated, manually operated plant and equipment appropriate to waste paper operations

Electronic control systems may include:

- Digital Control System (DCS)
- touch screens
- robotics

Legislation, regulatory, licensing and certification requirements may include:

- OHS and environmental requirements (local, state and commonwealth)
- as applicable, activity or task specific high risk and (non-high risk) load shifting licensing requirements

Documentation, procedures and reports may include:

- SOP
- quality procedures
- environmental sustainability requirements/practices
- plant manufacturing operating manuals
- oil or chemical spills and disposal guidelines
- plant isolation documentation
- safe work documentation e.g. plant clearance,

RANGE STATEMENT

	- job safety analysis, permit systems - Material Safety Data Sheets (MSDS) - furnish sheets - tally sheets - process and instrument diagrams
Maintenance may include:	- operator level maintenance as per site agreement - operator maintenance schedules - maintenance systems - maintenance suppliers - proactive maintenance strategies e.g. Total Productive Maintenance (TPM), Reliability Centred Maintenance (RCM)
Actions may include:	- process adjustments - reporting to authorised person - rectifying problem within level of responsibility
Communications may include	interaction with: - internal/external customers and suppliers - team members - maintenance services - operational management
Situational awareness may include	awareness of: - traffic - pedestrians - location of equipment - product - hazards - obstruction - unexpected movement
Forms of communications may include:	- written e.g. log books, emails, incident and other reports, run sheets, data entry - reading and interpreting documentation e.g. SOP, manuals, checklists, drawings - verbal e.g. radio skills, telephone, face to face, handover - non-verbal e.g. hand signals, alarms, observations

RANGE STATEMENT

- Sensory information may include:
- signage e.g. safety, access
 - visual
 - sound
 - feel
 - touch
 - smell
 - vibration
 - temperature

Unit Sector(s)

Not Applicable