



Australian Government

Department of Education, Employment and Workplace Relations

FPPPRM210A Undertake operator level preventative maintenance

Release: 1

FPPPRM210A Undertake operator level preventative maintenance

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit describes the outcomes required to undertake operator level preventative maintenance in the pulp and paper industry

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

Application of the Unit

Application of the unit

This unit applies to persons who undertake operator level preventative maintenance in the pulp and paper industry. This work typically involves complex integrated equipment and continuous operations

This unit generally applies to those who:

- carry out preventative maintenance inspections of plant and equipment
- carry out preventative maintenance of plant and equipment, and
- action faults

to meet safety, quality and productivity requirements

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. Carry out preventative maintenance inspections of plant and equipment	1.1. Preventative maintenance inspections of plant and equipment are carried out within Occupational Health and Safety (OHS) regulations, environmental and safe working requirements/practices, Standard Operating 1.2. Routine preventative maintenance inspections are undertaken 1.3. Faulty plant and equipment are identified 1.4. Faulty plant and equipment, as identified, are communicated and documented
2. Carry out preventative maintenance of plant and equipment	2.1. Preventative maintenance of plant and equipment is carried out within OHS regulations, environmental and safe working requirements/practices, SOP, and housekeeping requirements 2.2. Location of plant and equipment is identified 2.3. Routine preventative maintenance sequence of activities is determined 2.4. Isolation procedures are followed as required 2.5. Process and navigation controls are interpreted 2.6. Preventative maintenance activities are undertaken 2.7. Appropriate tools, materials and equipment are selected and used for operator level preventative maintenance 2.8. Preventative maintenance activities are documented
3. Action faults	3.1. Faults are actioned within OHS regulations, environmental and safe working requirements/practices, SOP, and housekeeping requirements 3.2. Faulty plant and equipment is actioned within limits of responsibility 3.3. Action on faulty plant and equipment is communicated and documented

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 undertaking operator level preventative maintenance
- Reads and interprets required documentation, procedures and reports
- Communicates preventative maintenance with team and related service personnel
- Accesses, navigates and enters computer-based information
- Identifies and actions problems within level of responsibility
- Interprets instruments, gauges and other recording equipment
- Interprets process and instrumentation diagrams
- Reports faulty plant and equipment according to SOP
- Interprets instrumentation data as an indication of plant and equipment requiring preventative maintenance
- Identifies and investigates reasons for faulty equipment
- Identifies and monitors process control points
- Applies isolation procedure, when required, according to site policy
- Removes isolations according to site policy
- Identifies locations or items of potential hazards and procedures to overcome them
- Applies methods to contain potential hazards, spillages and leaks
- Maintains a clean and hazard free work area
- Selects appropriate hand and/or power tools according to task requirements
- Checks tools before use and unsafe or faulty items are identified and marked for repair according to SOP
- Completes minor maintenance tasks in accordance with SOP
- Makes appropriate adjustments as required to meet changing conditions
- Follows maintenance inspection routines
- Maintains situational awareness in the work area
- 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 undertaking operator level preventative maintenance including OHS, environmental including relevant sustainability requirements/practices, SOP, isolation procedures, safe working requirements, risks and hazard identification and housekeeping
- Relevant forms of communication
- Basic problem-solving techniques consistent with level of responsibility

REQUIRED SKILLS AND KNOWLEDGE

- Use of instrumentation data as an indication of plant and equipment requiring preventative maintenance
- Consequences of inadequate preventative maintenance
- 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, 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 undertaking operator level preventative maintenance

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 undertaking operator level preventative maintenance

Access to the full range of equipment involved in undertaking operator level preventative maintenance 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

EVIDENCE GUIDE

culturally appropriate and in keeping with the language and literacy capacity of the learner and the work being 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.

- Routine preventative maintenance inspections may include:
- levels in sight glasses
 - belt fatigue
 - gear backlash
 - stretch and slack in chains
 - sprocket wear
 - gear box noise and heat
 - damaged equipment or components
 - control panel indicators
 - electronic control indicators
 - air and oil pressure gauges
 - flow levels
 - pressure checks
- Routine preventative maintenance activities may include:
- oil top ups
 - blade changes
 - filter changes or cleaning

RANGE STATEMENT

	• greasing • lubricating • housekeeping • pressure checks • removal or replacing • maintaining or replacing consumables
Actions may include:	• shutdown • isolation • by-passing systems • making adjustments • assisting in remedial maintenance • communicating with maintenance and engineering personnel • confirming availability of parts • containment of potential hazards, spillage and leaks • process adjustments • reporting to authorised person • rectifying problem within level of responsibility
Maintenance may include:	• operator level maintenance as per site agreement • operator maintenance schedules • maintenance systems • maintenance suppliers • pro-active maintenance strategies e.g. Total Productive Maintenance (TPM), Reliability Centred Maintenance (RCM)
Equipment may include:	• personal protective equipment and clothing • compressed air • hand and power tools • machine systems • computer systems • electronic screens and alarms • process control systems • analogue and digital instrumentation • fully automated, semi-automated, manually operated plant and equipment appropriate to undertaking preventative maintenance
Legislation, regulatory, licensing and certification requirements may	• OHS and environmental requirements (local, state and commonwealth)

RANGE STATEMENT

include:

Documentation, procedures and reports may include:

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

Electronic control systems may include:

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

Communications may include:

interaction with:

- internal/external customers and suppliers
- team members
- production/service co-ordinators
- maintenance services
- operational support personnel
- operational management
- statutory authorities

Situational awareness may include:

awareness of :

- traffic
- pedestrians
- location of equipment
- product
- hazards
- obstruction
- unexpected movement

Forms of communication 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
- signage e.g. safety, access

RANGE STATEMENT

Sensory information may include:

- visual
- sound
- feel
- touch
- smell
- vibration
- temperature

Unit Sector(s)

Not Applicable