Australian Government

PPMEPG440 Troubleshoot and rectify power generation system

Release: 1

INDUSTRY
SKILLS
COUNCILS
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PPMEPG440 Troubleshoot and rectify power generation system

Modification History

Release	Comment
1	Replaces equivalent unit FPPEPG440A Troubleshoot and rectify power generation system, which was first released with FPP10 Pulp and Paper Manufacturing Industry Training Package Version 1.0.
	This is the first release of this unit in the new standards format.

Application

This unit of competency describes the outcomes required to identify, diagnose and rectify power quality and distribution faults and report operational data relevant to power generation systems in the pulp or paper industry.

This unit applies to to senior operators and production specialists who troubleshoot and rectify power generation systems, in a pulp and paper manufacturing facility. This typically involves working in a facility with complex integrated equipment and continuous operations.

Licensing, legislative, regulatory, or certification requirements apply to this unit in some states and territories at the time of publication and may differ according to jurisdiction.

Pre-requisite Unit

Nil

Unit Sector

Pulp and Paper Manufacturing

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.
1. Identify and diagnose causes of faults	1.1. Identify faults according to work health and safety (WHS) and environmental procedures, safe working requirements, productivity requirements, Standard Operating Procedures (SOP), risks and hazard identification and housekeeping requirements.
	1.2. Interpret abnormal plant conditions and system alarms to determine type and location of fault.
	1.3. Identify faults through physical inspections of plant, equipment and processes.
	1.4. Identify and locate the cause and source of fault and take appropriate actions.
	1.5. Access and refer to relevant historical data to confirm fault diagnosis.
	1.6. Communicate diagnosis to relevant personnel as required.
2. Rectify faults	2.1. Rectify faults within work health and safety (WHS) and environmental procedures, safe working requirements, and Standard Operating Procedures (SOP).
	2.2. Implement shutdown and isolation procedures, as required.
	2.3. Repair or replace faulty equipment
	2.4. Adjust process and equipment to restore normal operations.
	2.5. Verify restoration to normal operations and communicate to relevant personnel.
3. Record and report operational data	3.1. Document variations from required production output and systems operation faults.
	3.2. Record troubleshooting process and corrective action.
	3.3. Communicate relevant information to appropriate personnel in accordance with operational requirements.

Forestworks Learning and Skill Development

Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.	
Numeracy skills to:	• estimate and calculate using measuring equipment relevant to power generation systems and to aid troubleshooting • interpret instruments, gauges and data recording equipment.
Reading skills to:	• read and interpret documentation, procedure manuals and test results.
Writing skills to:	• record and report test results and rectifications accurately and legibly using correct technical vocabulary.
Problem solving skills to:	• maintain situational awareness in the work area • analyse and use sensory information to adjust process and to maintain and co-ordinate safety, quality and productivity.
Technology skills to:	• use electronic and other control systems to control equipment and processes for power generation systems. • access, navigate and enter computer based information.

Range of Conditions

Not Applicable

Unit Mapping Information

FPPEPG440A Troubleshoot and rectify power generation system

Links

Companion Volume Implementation Guide -
http://www.skillsimpact.com.au/pulp-and-paper/skills-standards-and-qualifications/