



Australian Government

PPMEPG201 Monitor and control power generation systems

Release: 1

PPMEPG201 Monitor and control power generation systems

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 monitor and control power generation systems that are steam generated and produce power output of less than 500kW or use gas fired turbines that produce power greater than 500kW, and record and report operating data.

The unit applies to production support operators who assist in power generation operations, undertaking routine work in monitoring, identifying and solving predictable problems that occur with integrated equipment and continuous operations.

No licensing, legislative or certification requirements apply to this unit at the time of publication. This unit should not be used where the turbine equipment falls under the category for which a high risk work licence is required. Users are advised to check with the relevant regulatory authority for appropriate unit and licensing requirements.

Pre-requisite Unit

Nil

Unit Sector

Electrical Power Generation (EPG)

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 to monitor power generation operations	1.1 Check production requirements at start of shift and plan work activities according to workplace health and safety and standard operating procedures 1.2 Identify health and safety hazards and report safety concerns

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Select and fit personal protective equipment according to safety requirements 1.4 Confirm power generation processes are within operational specifications by observation and inspection 1.5 Maintain process supplies to meet production requirements 1.6 Record turbine operational performance according to workplace requirements 1.7 Communicate operational status to relevant personnel
2. Undertake routine monitoring and control of power generation operations	2.1 Confirm operational status by inspection and routine observation 2.2 Monitor and maintain continuing process supplies to meet production requirements 2.3 Measure turbine pressures, temperatures and flows according to operating procedures and manufacturer specifications 2.4 Adjust turbine and generation controls to maintain operation within specifications 2.5 Monitor and maintain power output demand and distribution system to meet production requirements
3. Record power generation performance and handover operations	3.1 Record power generation processes and pressures, temperatures and flows data according to workplace requirements 3.2 Record and report maintenance requirements 3.3 Brief incoming operators on status of power generations operations and equipment according to workplace procedures

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	<ul style="list-style-type: none"> Interpret information in workplace procedures and maintenance schedules
Writing	<ul style="list-style-type: none"> Complete accurate basic records in the required format

Skill	Description
Oral communication	<ul style="list-style-type: none"> Provide information about boiler operations using clear language and industry terminology
Numeracy	<ul style="list-style-type: none"> Interpret power generation data and basic numerical settings on instruments and gauges involving pressures, flows and temperatures Record basic numerical data for power generation performance

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
PPMEPG201 Monitor and control power generation systems	PPMEPG210 Monitor and control power generation system	<p>Minor unit title change</p> <p>Changes to elements, performance criteria, foundation skills, performance evidence and knowledge evidence</p> <p>Assessment conditions updated</p>	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>