



Australian Government

UEPOPS325 Operate and monitor water quality monitoring systems

Release: 1

UEPOPS325 Operate and monitor water quality monitoring systems

Modification History

Release 1. This is the first release of this unit of competency in the UEP Generation Training Package.

Application

This unit involves the skills and knowledge required to operate and monitor water quality monitoring systems in a power generation facility. These systems include all analytical devices used to monitor process chemical conditions.

Water quality refers to the chemical, physical, biological and or radiological characteristics of water. Water quality is a crucial factor for avoiding corrosion and scaling of turbines, boilers and pipes in power generating plant.

Competency in this unit requires the ability to plan work, operate water quality monitoring systems plant, test water quality monitoring systems plant, analyse water quality monitoring systems plant faults, monitor and inspect water quality monitoring systems plant and complete all documentation. Individuals will, in general, work under supervision, in a power generation facility as an operator.

Power generation plant operators are typically trained and authorised to isolate, prepare plant and issue permits to work.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Note: Workplace practice

The application of the skills and knowledge described in this unit may require a licence or training permit to practice in the workplace where work is carried out on gas and electrical installations. Additional conditions may apply under state and territory legislative and regulatory licensing requirements.

Pre-requisite Unit

There are no prerequisite units.

Competency Field

Operations

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Plan and prepare work

- 1.1 Safety issues related to operating and monitoring water quality monitoring system plant are identified, in accordance with workplace procedures and Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) regulations and legislative requirements
- 1.2 Work requirements are identified, in accordance with workplace procedures, from appropriate personnel and documentation
- 1.3 Documentation to determine water quality monitoring system plant status is assessed and evaluated, in accordance with workplace procedures
- 1.4 Water quality monitoring system plant inspection is carried out, in accordance with workplace procedures and manufacturers' recommendations
- 1.5 Water quality monitoring system plant operational prerequisites are established, in accordance with workplace procedures and manufacturers' recommendations
- 1.6 Sequence for recommissioning of water quality monitoring system plant is determined, in accordance with workplace procedures and site requirements

2 Operate water quality monitoring system plant

- 2.1 Water quality monitoring system plant is operated, in accordance with workplace procedures and manufacturers' operating recommendations
- 2.2 Water quality monitoring system plant is monitored and observed, in accordance with workplace procedures, to detect deviations from normal operating conditions
- 2.3 Corrective actions are taken to rectify abnormalities in water quality monitoring system plant, in accordance with workplace procedures and manufacturers'

		recommendations
3 Test water quality monitoring system plant operation	3.1	Operational tests are performed, in accordance with workplace procedures
	3.2	Water quality monitoring system plant is observed for correct operational response, in accordance with workplace procedures
	3.3	Water quality monitoring system plant is returned to required operational status upon completion of testing, in accordance with workplace procedures
4 Analyse water quality monitoring system plant conditions	4.1	Cause of abnormal water quality monitoring system plant conditions are identified, in accordance with workplace procedures, and by analysing technical and operational information
	4.2	Corrective action is taken, in accordance with workplace procedures, when response does not meet with documentation, water quality monitoring system plant integrity or personnel safety requirements
	4.3	Water quality monitoring system plant integrity and personnel safety is maintained, in accordance with workplace procedures, and in consultation with appropriate personnel and technical and operational documentation
5 Monitor and inspect water quality monitoring system plant	5.1	Water quality monitoring system plant to be monitored and inspected is physically identified, in accordance with workplace procedures
	5.2	Water quality monitoring system plant is monitored and inspected, in accordance with workplace procedures, for normal operation or to detect deviations
	5.3	Corrective action is taken, in accordance with workplace procedures
	5.4	Appropriate personnel are notified when defects are detected, in accordance with workplace procedures
6 Complete documentation	6.1	Water quality monitoring systems plant problems, movements, abnormalities and status are reported, in accordance with workplace procedures
	6.2	Documentation is updated, in accordance with

workplace procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS325B Operate and monitor water quality monitoring systems.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>