



Australian Government

UEPOPS244 Operate and monitor site services water systems

Release: 1

UEPOPS244 Operate and monitor site services water 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, inspect and monitor a power generation facility's site services water system, excluding fixed fire water services.

Water systems are an essential component in power generating facility operations. The smooth operation of a power generating facility's water system must be maintained and optimised to ensure safety and the mitigation of potential impacts from dangerous situations.

Competency in this unit requires the ability to plan work, operate water system plant, test water system plant operation, respond to abnormal water system plant operation, monitor and inspect water system plant and the completion of 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 relating to operating and monitoring water 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 from appropriate personnel and documentation, in accordance with workplace procedures
- 1.3** Documentation to determine water system plant status is assessed and evaluated, in accordance with workplace procedures
- 1.4** Inspection and field preparations of water system plant service is carried out, in accordance with workplace procedures and manufacturers' recommendations
- 1.5** Water system plant operational prerequisites are established, in accordance with workplace procedures and manufacturers' recommendations
- 1.6** Sequence for recommissioning of water system plant is determined, in accordance with workplace procedures and site requirements

2 Operate water system plant

- 2.1** Water system plant is operated, in accordance with workplace procedures and manufacturers' operating recommendations
- 2.2** Water 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 accordance with workplace procedures and manufacturers' recommendations

3 Test water system plant operation

- 3.1** Operational tests are performed, in accordance with workplace procedures
- 3.2** Water system plant is observed for correct operational

		response, in accordance with workplace procedures
	3.3	Corrective action is taken, in accordance with workplace procedures, when water system response does not meet documentation, plant integrity or personnel safety requirements
	3.4	Water system plant is returned to operational status upon completion of testing, in accordance with workplace procedures
4 Analyse water system plant faults	4.1	Causes of abnormal water system plant operating conditions are identified, in accordance workplace procedures, and by analysing technical and operational information
	4.2	Corrective action is taken, in accordance with workplace procedures
	4.3	Water system plant integrity and personnel safety are maintained, in accordance with workplace procedures, and in consultation with appropriate personnel and technical and operational documentation
5 Monitor and inspect water system plant	5.1	Water system plant to be monitored and/or inspected is physically identified, in accordance with workplace procedures
	5.2	Water system plant is monitored and/or inspected for normal operation or to detect deviations, in accordance with workplace procedures
	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 system plant problems, movements 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 UEPOPS244B Operate and monitor site services water systems.

Links

Companion Volume implementation guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>

Assessment Requirements for UEPOPS244 Operate and monitor site services water systems

Modification History

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

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions on at least two separate occasions and includes:

- analysing water system plant faults using analysis techniques and tools
- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) requirements including:
 - emergency procedures
 - risk control measures
 - safe working practices
- communicating with personnel
- completing documentation using recording procedures
- complying with legislation, industry standards, codes of practice and regulations
- identifying water system plant status
- interpreting manufacturers' specifications and manuals
- monitoring and inspecting water system plant operations
- operating water system plant
- organising resources
- preparing and planning work
- preparing plant and equipment for operation
- recognising and responding to abnormal water system plant operating conditions
- testing water system plant operationally using diagnostic and test techniques
- working with permit to work system

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions and includes knowledge of:

- inspection and monitoring plant water system
- legislation, industry standards, codes of practice and regulations
- manufacturers' manuals and specifications

- permit to work system
- safe operating principles
- water system plant and equipment, its location and operating parameters
- water system plant status including the identification of faults and abnormalities
- WHS/OHS legislated requirements including:
 - emergency procedures
 - risk control measures
 - safe working practices
- workplace documentation
- workplace policies and procedures

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

As a minimum, assessment must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions. Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment currently used in industry
- applicable documentation including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

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