



Australian Government

UEPOPS106 Operate and monitor site services water systems

Release: 1

UEPOPS106 Operate and monitor site services water systems

Modification History

Release 1. This is the first release of this unit of competency in the UEP Electricity Supply Industry – Generation Sector Training Package Release 2.0.

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 complete all documentation. Individuals will, in general, work under supervision, in a power generation facility as an operator.

Power generation plant operators are 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.

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.

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| 1 Plan and prepare work | 1.1 Work health and safety (WHS)/occupational health and safety (OHS) regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, environmental requirements and workplace procedures are identified, applied and monitored |
| | 1.2 Work requirements are identified from relevant 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 manufacturers' specifications and workplace procedures |
| | 1.5 Water system plant operational prerequisites are established in accordance with manufacturers' specifications and workplace procedures |
| | 1.6 Sequence for recommissioning of water system plant is determined in accordance with workplace procedures |
| 2 Operate water system plant | 2.1 Water system plant is operated in accordance with manufacturers' specifications and workplace procedures |
| | 2.2 Water system plant is monitored and observed to detect deviations from normal operating conditions in accordance with workplace procedures |
| | 2.3 Corrective actions are taken to rectify abnormalities in accordance with manufacturers' specifications and workplace procedures |
| 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 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 by analysing technical and |

		operational information in accordance workplace procedures
	4.2	Water system plant integrity and personnel safety are maintained in consultation with relevant personnel and technical and operational documentation in accordance with workplace procedures
5 Monitor and inspect water system plant	5.1	Water system plant is monitored and inspected for normal operation and to detect deviations in accordance with workplace procedures
	5.2	Relevant 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 UEP Electricity Supply Industry – Generation Sector Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS244 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 UEPOPS106 Operate and monitor site services water systems

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Performance Evidence

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

- 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 regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- 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 testing 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 and performance criteria and include knowledge of:

- inspection and monitoring plant water system
- manuals
- permit to work system

- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- safe operating principles
- water system plant and equipment, location and operating parameters
- water system plant status, including the identification of faults and abnormalities
- WHS/OHS requirements, including:
 - emergency procedures
 - risk control measures
 - safe working practices
- workplace documentation
- workplace policies and procedures.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

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.

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 (PPE) currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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