



Australian Government

UEPOPS088 Operate and monitor condenser and auxiliary cooling systems

Release: 1

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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 condenser and auxiliary cooling systems.

Auxiliary cooling systems deliver cool water or air, as required, to reduce the heat from plant and equipment in power generation facilities. The condenser is used to change gas to liquid by cooling it.

Competency in this unit requires the ability to plan work, operate condenser cooling system plant, test condenser cooling system plant, analyse condenser cooling system plant faults, monitor and inspect condenser cooling 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

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

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 condenser and cooling system plant status is assessed and evaluated in accordance with workplace procedures
- 1.4** Inspection, preoperational checks and field preparation for condenser and cooling system plant service are carried out in accordance with manufacturers' recommendations and specifications, and workplace procedures
- 1.5** Condenser and cooling system plant operational prerequisites are established in accordance with manufacturers' recommendations and specifications, and workplace procedures
- 1.6** Sequence for recommissioning of condenser and cooling system plant is determined to suit existing circumstances in accordance with workplace procedures

2 Operate condenser and cooling system plant

- 2.1** Condenser and cooling system plant are operated in accordance with manufacturers' recommendations and specifications, and workplace procedures
- 2.2** Condenser and cooling system plant are monitored and observed to detect deviations from normal operating conditions in accordance with workplace procedures
- 2.3** Corrective actions are taken to rectify condenser and cooling system plant abnormalities in accordance with workplace procedures

3 Test condenser and cooling system plant

- 3.1** Operational tests are performed in accordance with workplace procedures
- 3.2** Condenser and cooling system plant are observed for

		correct operational response in accordance with workplace procedures
	3.3	Condenser and cooling system plant are returned to required operational status upon completion of testing in accordance with workplace procedures
4 Analyse condenser and cooling system plant faults	4.1	Causes of abnormal condenser and cooling system plant operating conditions are identified by analysing technical and operational information in accordance with workplace procedures
	4.2	Condenser and cooling system plant integrity and personnel safety is maintained in consultation with relevant personnel and technical and operational documentation in accordance with workplace procedures
5 Monitor and inspect condenser and cooling system plant	5.1	Condenser and cooling system plant are 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	Condenser and cooling system 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 UEP Electricity Supply Industry – Generation Sector Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS332 Operate and monitor condenser and auxiliary

cooling systems.

Links

Companion Volume implementation guides are found in VETNet -

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