



Australian Government

UEPOPS084 Operate and monitor brine concentrator plant

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 brine concentrator plant.

Power generation facilities produce wastewater that contains minerals and solids. Brine concentrators are used to remove these impurities as part of the wastewater management and treatment process.

Competency in this unit requires the ability to plan work, operate brine concentrator plant, test brine concentrator plant, analyse brine concentrator plant faults, monitor and inspect brine concentrator 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 | <ul style="list-style-type: none">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 monitored1.2 Work requirements are identified from relevant personnel and documentation in accordance with workplace procedures1.3 Documentation to determine brine concentrator plant status is assessed and evaluated in accordance with workplace procedures1.4 Inspection and field preparations for brine concentrator service are carried out in accordance with manufacturers' recommendations and specifications, and workplace procedures1.5 Brine concentrator plant operational prerequisites are established in accordance with manufacturers' recommendations and specifications, and workplace procedures1.6 Sequence for recommissioning of brine concentrator plant is determined in accordance with workplace procedures |
| 2 Operate brine concentrator plant | <ul style="list-style-type: none">2.1 Brine concentrator plant is operated in accordance with manufacturers' recommendations and specifications, and workplace procedures2.2 Brine concentrator plant is monitored and observed to detect deviations from normal operating conditions in accordance with workplace procedures2.3 Corrective actions are taken to rectify brine concentrator abnormalities in accordance with manufacturers' recommendations and specifications, and workplace procedures2.4 Brine concentrator plant is identified and removed from service in accordance with workplace procedures |
| 3 Test brine concentrator plant operation | <ul style="list-style-type: none">3.1 Operational tests are performed in accordance with workplace procedures3.2 Brine concentrator plant is observed for correct |

		operational response in accordance with workplace procedures
	3.3	Brine concentrator plant is returned to required operational status upon completion of testing in accordance with workplace procedures
4 Analyse brine concentrator plant faults	4.1	Cause of abnormal brine concentrator plant operating conditions are identified by analysing technical and operational information in accordance with workplace procedures
	4.2	Brine concentrator 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 brine concentrator plant	5.1	Brine concentrator plant to be monitored and inspected is physically identified in accordance with workplace procedures
	5.2	Brine concentrator plant is monitored and inspected for normal operation and to detect deviations in accordance with workplace procedures
6 Complete documentation	6.1	Brine concentrator 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 UEPOPS324 Operate and monitor brine concentrator plant.

Links

Companion Volume implementation guides are found in VETNet -

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