



Australian Government

UEPOPS324 Operate and monitor brine concentrator plant

Release: 1

UEPOPS324 Operate and monitor brine concentrator plant

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 brine concentrator plant.

Power generation facilities typically produce waste water that contains minerals and solids. Brine concentrators are used to remove these impurities as part of the waste water 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 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

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 Safety issues related to operating and monitoring brine concentrator 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 brine concentrator plant status is assessed and evaluated, in accordance with workplace procedures

1.4 Inspection and field preparations for brine concentrator service are carried out, in accordance with workplace and manufacturers' procedures

1.5 Brine concentrator plant operational prerequisites are established, in accordance with workplace procedures and manufacturers' recommendations

1.6 Sequence for recommissioning of brine concentrator plant is determined, in accordance with workplace procedures and site requirements

2 Operate brine concentrator plant

2.1 Brine concentrator plant is operated, in accordance with workplace procedures and manufacturers' operating recommendations

2.2 Brine concentrator 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 brine concentrator abnormalities, in accordance with workplace procedures and manufacturers' recommendations

2.4 Brine concentrator plant is identified and removed from service, in accordance with workplace procedures and site requirements

- 2.5** Corrective actions are taken, in accordance with workplace procedures when brine concentrator abnormalities are identified during removal from service
- 3 Test brine concentrator plant operation**
- 3.1** Operational tests are performed, in accordance with workplace procedures
- 3.2** Brine concentrator plant is observed for correct operational response, in accordance with workplace procedures
- 3.3** Corrective action is taken, in accordance with workplace procedures, when response does not meet with documentation, brine concentrator plant integrity or personnel safety requirements
- 3.4** 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, in accordance with workplace procedures, by analysing technical and operational information
- 4.2** Corrective action is taken, in accordance with workplace procedures
- 4.3** Brine concentrator 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 brine concentrator plant**
- 5.1** Brine concentrator plant to be monitored or inspected is physically identified, in accordance with workplace procedures
- 5.2** Brine concentrator plant is monitored or inspected, in accordance with workplace procedures for normal operation or to detect deviations
- 5.3** Corrective action is taken, 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS324B 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>