



Australian Government

UEPOPS510 Monitor power generation plant reliability

Release: 1

UEPOPS510 Monitor power generation plant reliability

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 monitor power generating plant reliability through data assessment.

Data is collected and assessed to accurately evaluate the impact of power generating plant reliability in the operation of power generation facilities.

Competency in this unit requires the ability to collect data, perform calculations, evaluate and analyse information and produce reports and complete work. Individuals will, in general, work under supervision as an operator, in a power generation facility.

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 Collect data

- 1.1** Information and data is collected, in accordance with legislative requirements, industry standards and workplace procedures
- 1.2** Generating plant is identified and its' status is established, in accordance with workplace procedures
- 1.3** Tools and equipment are identified and acquired, in accordance with workplace procedures
- 1.4** Specialist assistance or equipment is obtained, as required, in accordance with workplace procedures
- 1.5** Information collected is recorded and ranked, in accordance with legislative requirements, industry standards and workplace procedures

2 Perform calculations

- 2.1** Performance calculations are undertaken, in accordance with legislative requirements, industry standards and workplace procedures
- 2.2** Calculations are checked for accuracy, in accordance with workplace procedures

3 Analyse information

- 3.1** Technical and operational information is analysed, in accordance with workplace procedures, to identify abnormal generating plant operating conditions
- 3.2** Causes of abnormal generating plant conditions are identified, in accordance with workplace procedures
- 3.3** Generating plant integrity is maintained, in accordance with workplace procedures, and in consultation with relevant personnel and operational documentation
- 3.4** Need for specialist assistance is determined, in accordance with workplace procedures

4 Produce report and complete work

- 4.1** Information and data is documented, in accordance with workplace procedures
- 4.2** Reports are produced, in accordance with legislative requirements, industry standards and workplace

procedures

- 4.3 Actions to rectify generating plant loss of reliability are ranked, and recommendations are made to appropriate personnel, in accordance with workplace procedures
- 4.4 Implementation of recommendations is monitored, in accordance with workplace procedures, to ensure generating plant reliability

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 UEPOPS510B Monitor power generation plant reliability.

Links

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