



Australian Government

UEPOPS066 Monitor power generation plant reliability

Release: 1

UEPOPS066 Monitor power generation plant reliability

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 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 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 Collect data | 1.1 Information and data is collected in accordance with workplace procedures |
| | 1.2 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 |
| | 1.3 Generating plant is identified and status established in accordance with workplace procedures |
| | 1.4 Tools and equipment are identified and acquired in accordance with workplace procedures |
| | 1.5 Specialist assistance or equipment is obtained in accordance with workplace procedures |
| | 1.6 Information collected is recorded and ranked in accordance with workplace procedures |
| 2 Perform calculations | 2.1 Performance calculations are undertaken in accordance with 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 to identify abnormal generating plant operating conditions in accordance with workplace procedures |
| | 3.2 Causes of abnormal generating plant conditions are identified in accordance with workplace procedures |
| | 3.3 Generating plant integrity is maintained in consultation with relevant personnel and operational documentation in accordance with workplace procedures |
| | 3.4 Specialist assistance is determined in accordance with workplace procedures |
| 4 Produce report and complete work | 4.1 Information and data are documented in accordance with workplace procedures |
| | 4.2 Reports are produced in accordance with workplace procedures |
| | 4.3 Actions to rectify generating plant loss of reliability are ranked, and recommendations are made to relevant |

personnel in accordance with workplace procedures

- 4.4** Implementation of recommendations is monitored to ensure generating plant reliability 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 UEPOPS510 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>

Assessment Requirements for UEPOPS066 Monitor power generation plant reliability

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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:

- applying work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - emergency procedures
 - risk control measures
 - site safety procedures
- collecting data
- communicating with personnel
- determining generation plant reliability performance
- evaluating and analysing information and data
- identifying generating plant status
- implementing regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- interpreting manuals
- performing calculations
- producing reports and completing work
- recording and analysing data using analysis techniques and tools.

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:

- arrangements of power production plant
- calculation methods
- data collection and analysing techniques
- generation plant and equipment, location and operating parameters
- generation plant monitoring processes and procedures
- generation plant status
- manuals

- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- WHS/OHS requirements, including:
 - emergency procedures
 - risk control measures
 - site safety procedures
- 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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