



Australian Government

UEPOPS334 Operate and monitor a wind generator

Release: 1

UEPOPS334 Operate and monitor a wind generator

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 wind generator plant.

To ensure the safe operating of a generator it is essential that regular monitoring and inspections are undertaken.

Competency in this unit requires the ability to plan work, operate wind generator plant, test wind generator plant, analyse wind generator plant faults, monitor and inspect wind generator 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 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

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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 wind generator 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 relevant personnel and documentation
- 1.3** Documentation to determine wind generator plant status is assessed and evaluated, in accordance with workplace procedures
- 1.4** Inspection and field preparations for wind generator plant service are carried out, in accordance with workplace procedures and manufacturers' recommendations
- 1.5** Wind generator plant operational prerequisites are established, in accordance with workplace procedures and manufacturers' recommendations
- 1.6** Sequence for recommissioning of wind generator plant is determined to suit existing circumstances, in accordance with workplace procedures and site requirements

2 Operate wind generator plant

- 2.1** Wind generator plant is operated, in accordance with workplace procedures and manufacturers' operating recommendations
- 2.2** Wind generator 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 wind generator plant abnormalities, in accordance with workplace procedures and manufacturers' recommendations

3 Test wind generator plant operation

- 3.1** Operational tests are performed, in accordance with workplace procedures

	3.2	Wind generator plant is observed for correct operational response, in accordance with workplace procedures
	3.3	Corrective action is taken when response does not meet with documentation, wind generator plant integrity or personnel safety requirements
4 Analyse wind generator plant faults	4.1	Causes of abnormal wind generator plant operating conditions are identified, in accordance with workplace procedures, and by analysing technical and operational information
	4.2	Corrective action is taken, in accordance with workplace procedures
	4.3	Wind generator 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 wind generator plant	5.1	Wind generator plant to be monitored or inspected is physically identified, in accordance with workplace procedures
	5.2	Wind generator 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
	5.4	Appropriate personnel are notified when defects are detected, in accordance with workplace procedures
6 Complete documentation	6.1	Wind generator plant problems, movements 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 UEPOPS334B Operate and monitor a wind generator.

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 UEPOPS334 Operate and monitor a wind generator

Modification History

Release 1. This is the first release of this unit of competency in the UEP Generation Training Package.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions on at least two separate occasions and includes:

- analysing wind generator plant faults using data analysis techniques and tools
- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) requirements including:
 - emergency procedures
 - risk control measures
 - safe working practices
- communicating with personnel
- completing documentation
- identifying wind generator plant status
- implementing legislation, industry standards, codes of practice and regulations
- interpreting manufacturers' specifications and manuals
- monitoring and inspecting wind generator plant operation
- operating wind generator and associated plant
- organising resources
- preparing and planning work
- recognising and responding to abnormal wind generator plant operating conditions
- testing wind generator plant operationally using diagnostic and test techniques
- working with wind generator plant and/or equipment

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions and includes knowledge of:

- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals
- typical arrangements of power production plant
- WHS/OHS legislated requirements including:

- emergency procedures
- risk control measures
- safe working practices
- wind generator plant and equipment, its location and operating parameters
- wind generator plant status
- workplace documentation
- workplace policies and procedures

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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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.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

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 currently used in industry
- applicable documentation including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

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