



Australian Government

UEPMNT444 Maintain wind turbine generator mechanical systems

Release: 1

UEPMNT444 Maintain wind turbine generator mechanical systems

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 undertake maintenance of wind turbine generator mechanical systems.

Undertaking maintenance is the process of optimising power generation plant and equipment operations through regular inspections and verification of wind turbine generator mechanical system operational efficiency.

Competency in this unit requires the ability to plan work, conduct maintenance on wind turbine generator mechanical systems and complete all work tasks. Individuals will, in general, work under supervision in an electrical, electronic and/or mechanical equipment repair workshop or on site.

Power generation maintenance personnel are typically trained and authorised to receive 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 of competency may require a licence or training permit to practice in the workplace, where work is carried out on gas and electrical installations. Additional and/or other conditions may apply under state and territory legislative and regulatory licensing requirements.

Pre-requisite Unit

UEPMNT371 Maintain large scale wind turbine generators

Competency Field

Maintenance

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan and prepare for work

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1** Requirements including scope of work and assigned roles are identified and confirmed with appropriate personnel or by site inspection, in accordance with workplace procedures
 - 1.2** Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) regulations, legislative requirements, industry standards, codes of practice, manufacturers' specifications, environmental obligations and workplace procedures are reviewed in preparation for work
 - 1.3** Resources are obtained and inspected for compliance with job specification
 - 1.4** Relevant plans, drawings and manuals are selected and used, in accordance with workplace procedures
 - 1.5** Work is planned, sequenced and prioritised, in accordance with workplace procedures
 - 1.6** Work area is prepared, in accordance with work requirements and site procedures
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- 2.1** Faulty wind turbine generator mechanical system equipment is replaced, in accordance with manufacturers' specifications and workplace procedures
 - 2.2** Documented service checklists, or similar, are followed, in accordance with workplace procedures
 - 2.3** Diagnostic testing and data from monitoring systems is used to identify components requiring maintenance
 - 2.4** Wind turbine generator mechanical system equipment is dismantled for maintenance, in accordance with manufacturers' specifications and workplace procedures
 - 2.5** Maintenance techniques are used to enable identification or reassembly of components, in accordance with workplace procedures
 - 2.6** New components are obtained and inspected for

2 Conduct maintenance on wind turbine generator mechanical systems

compliance with manufacturers' specifications

- 2.7 Turbine generator mechanical system equipment is tested, monitored and adjusted, as required, in accordance with manufacturers' specifications and workplace procedures

3 Complete work

- 3.1 Work is completed and appropriate personnel are notified, in accordance with workplace procedures
- 3.2 Work area is cleared of waste, cleaned, restored and secured, in accordance with workplace procedures
- 3.3 Tools and equipment are maintained and stored, in accordance with workplace procedures
- 3.4 Work completion details are finalised, 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 UEPMNT444A Maintain wind turbine generator mechanical systems.

Links

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