



**Australian Government**

# **UEPMNT009 Maintain large scale wind turbines**

**Release: 1**

# UEPMNT009 Maintain large scale wind turbines

## 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 undertake scheduled maintenance of large scale wind turbines.

Scheduled maintenance typically includes a list of predetermined maintenance actions carried out at regular time intervals to prevent breakdowns. It includes monitoring, inspecting and maintaining large scale wind turbines to ensure their safe and efficient operation.

Competency in this unit requires the ability to plan work, conduct maintenance 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 trained and authorised to receive permits to work.

The application of the skills and knowledge described in this unit may require a licence/registration to practice in the workplace.

Other conditions may apply under state and territory legislative and regulatory licensing requirements which must be confirmed prior to commencing this unit

## Pre-requisite Unit

Not applicable

## Competency Field

Maintenance

## Unit Sector

Electricity generation

## Elements and Performance Criteria

### ELEMENTS

### PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

- 1 Plan and prepare for work**
- 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' recommendations and specifications, environmental requirements 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** Isolations for work are requested in accordance with workplace procedures
  - 1.7** Work area is prepared in accordance with workplace procedures
- 2 Conduct maintenance**
- 2.1** Wind turbine components is replaced in accordance with manufacturers' recommendations and specifications, and workplace procedures
  - 2.2** Documented service checklists, or similar documentation, are followed in accordance with workplace procedures
  - 2.3** Diagnostic testing and data from monitoring systems are used to identify wind turbine components requiring maintenance
  - 2.4** Wind turbine components are dismantled for maintenance in accordance with manufacturers' recommendations and specifications, and workplace procedures
  - 2.5** Approved workplace techniques are used to enable identification or reassembly of components or equipment in accordance with workplace procedures

- 2.6 New components are obtained and inspected in accordance with workplace procedures for compliance with manufacturers' recommendations and specifications
  - 2.7 Wind turbine components are tested, monitored and adjusted in accordance with manufacturers' recommendations and 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 Maintenance 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 UEP Electricity Supply Industry - Generation Sector Training Package Companion Volume Implementation Guide.

## Unit Mapping Information

This unit replaces and is equivalent to UEPMNT371 Maintain large scale wind turbine generators.

## Links

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