



Australian Government

UEPOPS016 Conduct routine wind turbine maintenance

Release: 1

UEPOPS016 Conduct routine wind turbine maintenance

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 conduct a range of routine maintenance functions associated with wind turbines. Routine maintenance functions associated with wind turbines are required to ensure the smooth operation of mechanical plant and equipment.

Competency in this unit requires the ability to plan for plant in-service checks, carry out in-service mechanical checks and complete work. Individuals will, in general, work 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.

1 Plan and prepare for work

PERFORMANCE CRITERIA

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

1.1

Work requirements are identified from relevant personnel and site inspection 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 Resources are obtained and inspected for compliance with job specification in accordance with workplace procedures
 - 1.4 Plans, drawings and manuals are selected in accordance with workplace procedures
 - 1.5 Correct size, type and quantity of materials and components are obtained and inspected in accordance with workplace procedures
 - 1.6 Work sequenced and prioritised in accordance with workplace procedures
 - 1.7 Potential hazards are identified, and risk control measures are selected in accordance with workplace procedures
 - 1.8 Work area is prepared in accordance with workplace procedures
- 2 Conduct routine maintenance**
 - 2.1 Isolations are confirmed in accordance with workplace procedures
 - 2.2 Routine maintenance on wind turbine is conducted in accordance with workplace procedures
 - 2.3 Minor adjustments of wind turbine are undertaken in accordance with maintenance schedules and workplace procedures
 - 2.4 Wind turbine faults are reported to relevant personnel in accordance with workplace procedures
- 3 Complete work**
 - 3.1 Maintenance work is completed and relevant 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 UEP Electricity Supply Industry – Generation Sector Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS251 Conduct routine wind turbine maintenance.

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 UEPOPS016 Conduct routine wind turbine maintenance

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.

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:

- acquiring and analysing information related to wind turbine maintenance
- 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 work
- complying with regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- interpreting manuals
- maintaining and retrieving records
- performing isolations
- planning and preparing for work, including identifying and selecting materials
- storing and maintaining tools and equipment
- utilising routine wind turbine maintenance techniques
- working with permit to work system.

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:

- acquiring and analysing wind turbine information
- arrangements of wind farm power plant
- equipment and materials required for maintenance work
- isolations
- maintenance and retrieval of records
- manuals

- permit to work system
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- routine wind turbine maintenance techniques
- WHS/OHS requirements, including:
 - emergency procedures
 - risk control measures
 - safe working procedures
- wind farm principles, including wind turbine types and characteristics
- wind turbine plant and equipment, location and operating parameters
- 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

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>