



Australian Government

UEPOPS251 Conduct routine wind turbine maintenance

Release: 1

UEPOPS251 Conduct routine wind turbine maintenance

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 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 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

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Plan and prepare for work

- 1.1** Work requirements are identified, in accordance with workplace procedures, from work orders and are confirmed with appropriate personnel or by site inspection
- 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 identified, applied and monitored
- 1.3** Resources are obtained and inspected, in accordance with workplace procedures, for compliance with job specification
- 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 and site requirements
- 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, where appropriate, in accordance with workplace procedures
- 2.2** Routine maintenance on wind turbine is conducted, in accordance with workplace procedures and site requirements
- 2.3** Minor adjustments of wind turbine are undertaken, in accordance with workplace procedures, maintenance schedules and site requirements
- 2.4** Wind turbine faults are reported to appropriate personnel, in accordance with workplace procedures

3 Complete work

- 3.1 Maintenance 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 UEPOPS251A 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 UEPOPS251 Conduct routine wind turbine maintenance

Modification History

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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, performance criteria and range of conditions on at least two separate occasions and includes:

- 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 legislation, industry standards, codes of practice and regulations
- conducting routine wind turbine maintenance
- interpreting manufacturers' specifications and 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, performance criteria and range of conditions and includes knowledge of:

- acquiring and analysing wind turbine information
- equipment and materials required for maintenance work
- isolations
- legislation, industry standards, codes of practice and regulations
- maintenance and retrieval of records

- manufacturers' specifications and manuals
- permit to work system
- routine wind turbine maintenance techniques
- typical arrangements of wind farm power plant
- WHS/OHS legislated requirements including:
 - emergency procedures
 - risk control measures
 - safe working procedures
- wind farm principles including wind turbine types and characteristics
- wind turbine plant and equipment, its location and operating parameters
- 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.

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

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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