



Australian Government

UEPMNT008 Maintain and monitor wind farm civil assets

Release: 1

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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 condition, monitor and conduct preventative and remedial maintenance to ensure the integrity of civil assets associated with a wind farm.

Civil assets include infrastructure such as water treatment facilities, sewer pipelines, roads, utility grids, bridges, tunnels and railways. Maintenance involves the use of strategies and procedures to preserve and extend the service life of civil asset infrastructure at a wind farm.

Competency in this unit requires the ability to plan work, disassemble wind turbine, inspect wind turbine components, repair wind turbine and/or components and report on all completed work tasks. Individuals will, in general, work under supervision in a maintenance operative in a power generation facility.

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 outcomes.

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

1 Plan and prepare for the work

- 1.1** 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
- 1.2** Requirements, including scope of work and assigned roles, are identified and confirmed with appropriate personnel or by site inspection in accordance with workplace procedures
- 1.3** Resources are obtained and inspected for compliance in accordance with workplace procedures
- 1.4** Potential hazards are identified and risk control measures are selected and implemented in accordance with workplace procedures
- 1.5** Work is planned sequenced and prioritised in accordance with workplace procedures

2 Monitor civil assets

- 2.1** Inspection of civil assets is completed in accordance with workplace procedures
- 2.2** Inspection results are reported in accordance with workplace procedures
- 2.3** Defects are reported in accordance with workplace procedures

3 Maintain civil assets

- 3.1** Maintenance work on civil assets is undertaken in accordance with workplace procedures and site requirements
- 3.2** Tools and equipment to maintain civil assets are utilised in accordance with manufacturers' recommendations and specifications, and job requirements.
- 3.3** Defects are repaired in accordance with workplace procedures

4 Complete work

- 4.1** Work is completed and appropriate personnel are notified in accordance with workplace procedures
- 4.2** Work area is cleared of waste, cleaned, restored and

secured in accordance with workplace procedures

- 4.3 Tools and equipment are maintained in accordance with manufacturers' recommendations and specifications, and workplace procedures
- 4.4 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 UEPMNT370 Maintain and monitor wind farm civil assets.

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 UEPMNT008 Maintain and monitor wind farm civil assets

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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 and performance criteria on at least two separate occasions and include:

- applying work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - emergency procedures
 - hazard identification
 - risk control measures
 - safe working practices
- communicating with personnel
- completing work
- confirming security systems operation
- complying with regulations, industry standards, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- maintaining and repairing civil assets, including:
 - performing corrosion restoration and painting of metal surfaces
 - placing pest control baits in a safe and environmentally aware manner
 - undertaking surveys of lighting systems and replacing defective bulbs
 - using brush cutters and mowers to reduce vegetation from the perimeter of buildings and/or structures
- monitoring civil assets
- planning for maintenance and monitoring of wind farm civil assets work.

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:

- civil asset monitoring, including paint work, corrosion, pests, vegetation and erosion
- civil assets, including fences, gates, roads, pathways, security system and lights
- inspection methods and techniques
- maintenance methods and techniques

- regulations, industry standards, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- repair methods and techniques
- WHS/OHS legislated requirements, including:
 - emergency procedures
 - hazard identification
 - risk control measures
 - safe working practices
- 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

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