



Australian Government

UEPMNT370 Maintain and monitor wind farm civil assets

Release: 1

UEPMNT370 Maintain and monitor wind farm civil assets

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 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 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

UEENEEK142A Apply environmental and sustainable procedures in the energy sector

UEENEEE102A Fabricate, assemble and dismantle utilities industry components

Competency Field

Maintenance

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan and prepare for the work

2 Monitor civil assets

3 Maintain civil assets

PERFORMANCE CRITERIA

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

- 1.1** 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
- 1.2** 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
- 2.1** 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
- 3.1** 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' 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' 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPMT370A 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 UEPMNT370 Maintain and monitor wind farm civil assets

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:

- 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
- implementing legislation, industry standards, codes of practice and regulations
- interpreting manufacturers' specifications and manuals
- maintaining and repairing civil assets including:
 - confirming security system operation
 - 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
- performing corrosion restoration and painting of metal surfaces
- placing pest control baits in a safe and environmentally aware manner
- planning for maintenance and monitoring of wind farm civil assets work
- undertaking surveys of lighting systems and replacing defective bulbs
- using brush cutters and mowers to reduce vegetation from the perimeter of buildings or structures
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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:

- 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
- legislation, industry standards, codes of practice and regulations
- maintenance methods and techniques
- manufacturers' specifications and manuals
- 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

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.

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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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