



Australian Government

UEPOPS358 Monitor and maintain wind farm civil assets

Release: 1

UEPOPS358 Monitor and maintain 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 monitor and conduct preventative and remedial maintenance to ensure the integrity of civil assets associated with a wind farm.

Wind farm civil assets include infrastructure such as water treatment facilities, sewer pipelines, roads, utility grids, bridges, tunnels and railways. Civil asset maintenance in a wind power generation system involves the use of strategies to preserve and extend the service life of infrastructure.

Competency in this unit requires the ability to plan work, monitor wind farm civil assets, maintain wind farm civil assets and complete all 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

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

1 Plan and prepare for work

- 1.1 Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) standards, legislative requirements, industry standards, codes of practice, manufacturers' specifications, environmental obligations and workplace procedures are identified, applied and monitored
- 1.2 Work requirements are identified from work orders and are confirmed with appropriate personnel or by site inspection, in accordance with workplace procedures
- 1.3 Resources to satisfy work requirements are identified, 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 sequenced and prioritised, in accordance with workplace procedures and site requirements

2 Monitor wind farm civil assets

- 2.1 Inspections of wind farm civil assets are completed, in accordance with workplace procedures and site requirements
- 2.2 Inspections of wind farm civil assets are reported, in accordance with workplace procedures and site requirements
- 2.3 Defects in wind farm civil assets are reported, in accordance with workplace procedures and site requirements

3 Maintain wind farm civil assets

- 3.1 Maintenance of wind farm civil assets is undertaken, in accordance with workplace procedures and site requirements
- 3.2 Appropriate tools, equipment or plant required to maintain wind farm civil assets is utilised, in accordance with workplace procedures and manufacturers' specifications

- 3.3 Defects are repaired, in accordance with workplace procedures and site requirements
- 4 **Complete work**
 - 4.1 Maintenance 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 Wind farm civil asset maintenance tools and equipment are maintained and stored, 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 UEPOPS358A Monitor and maintain 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 UEPOPS358 Monitor and maintain 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
 - risk control measures
 - safe working practices
- clearing waste from work area
- communicating with personnel
- completing work
- identifying and selecting equipment and materials
- implementing legislation, industry standards, codes of practice and regulations
- interpreting manufacturers' specifications and manuals
- monitoring and maintaining wind farm civil assets using monitoring and maintenance procedures
- planning and preparing for work
- storing and maintaining civil asset tools and equipment

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:

- layout of power generation wind farm facility and associated civil assets
- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals
- typical arrangements of wind farm power plant including wind turbine types and characteristics
- WHS/OHS legislated requirements including:
 - emergency procedures

- risk control measures
- safe working practices
- wind farm civil asset monitoring and maintenance techniques
- 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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