



Australian Government

UEPMNT013 Monitor climatic conditions for renewable electricity generation

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 monitor weather and climate conditions for the purposes of planning electricity generation from renewable sources and ensuring the safety of power generation plant and personnel.

Weather is measured through the assessment of patterns in temperature, humidity, atmospheric pressure, wind, precipitation and other meteorological variables. Climate is the measurement of weather over longer periods of time in specific regions.

Competency in this unit requires the ability to interpret weather and climate information, plan for adverse or extreme weather conditions, take action in response to adverse or extreme weather conditions and complete all documentation. Individuals will, in general, work as a maintenance operative in a power generation facility.

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 Interpret weather and climate information

- 1.1** Weather, climate information and warnings are regularly monitored to determine likely conditions
- 1.2** Potential variations in weather and climate conditions are assessed in accordance with warnings, weather patterns and historical experience
- 1.3** Possible impact of weather and climate on power generation plant, equipment, grid demand and civil assets are identified

2 Plan for adverse weather conditions

- 2.1** Workplace operational guidelines for adverse weather conditions are accessed and implemented in accordance with workplace procedures
- 2.2** Possible power generation outages and actions to be taken are communicated to key stakeholders

3 Act in response to adverse weather conditions

- 3.1** Work schedules are adjusted in accordance with workplace procedures to account for extreme weather events
- 3.2** Workplace procedures to be followed during, and after, extreme weather events are analysed and discussed with personnel or team members
- 3.3** External assets in the perimeter area of wind turbine generators are prepared in accordance with workplace procedures for extreme weather events
- 3.4** Emergency and evacuation procedures are implemented in accordance with workplace procedures for adverse weather conditions
- 3.5** Stakeholders and key personnel are informed of anticipated impact of weather and climate on power generation plant, equipment, grid demand and civil assets
- 3.6** Meteorological incidents are monitored and preventative actions are taken
- 3.7** Normal operations are recommenced in accordance with workplace procedures after confirmation of return to normal weather conditions and completion of inspection

- 4 Complete documentation**
- 4.1** Workplace documentation is updated in accordance with workplace procedures
 - 4.2** Reports are prepared and presented to key personnel 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 UEPMNT369 Monitor climatic conditions for renewable electricity generation

Links

Companion Volume implementation guides are found in VETNet -

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