



Australian Government

UEPOPS359 Monitor climatic conditions for renewable energy production

Release: 1

UEPOPS359 Monitor climatic conditions for renewable energy production

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 weather and climate conditions for renewable energy production. It also includes taking suitable preventative actions to ensure the safety of personnel, power generation plant and equipment in adverse weather conditions.

Renewable energy can be generated from natural resources such as sun light, wind, rain, tides and geothermal heat which are naturally replenished.

Competency in this unit requires the ability to interpret weather and climate information, carry out preventative actions, monitor weather and climate during adverse conditions, return to normal operations and complete all documentation. Individuals will, in general, work as an operator, in a power generation facility.

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 Interpret weather and climate information

1.1 Weather and climate information, including warnings, are monitored, in accordance with workplace procedures to determine likely conditions

1.2 Potential variations in weather and climate conditions are anticipated and assessed, in accordance with workplace procedures, warnings, weather patterns and historical experience

1.3 Possible impact of weather and climate on renewable energy plant, equipment and civil assets are identified, in accordance with workplace procedures

1.4 Stakeholders and key personnel are informed of anticipated impact of weather and climate on renewable energy plant, equipment and civil assets, in accordance with workplace procedures

2 Carry out preventative actions

2.1 Preventative actions are identified, in accordance with workplace procedures and manufacturers' recommendations

2.2 Stakeholders and key personnel are consulted in the development of preventative actions, in accordance with workplace procedures

2.3 Preventative actions are reviewed, in accordance with workplace procedures, to ensure availability of resources, safety of personnel, renewable energy plant and equipment

2.4 Actions to minimise loss and damage of renewable energy plant, equipment and civil assets are implemented, in accordance with workplace procedures and manufacturers' recommendations

2.5 Actions to ensure safety of personnel are implemented, in accordance with workplace procedures

3 Monitor weather and climate during adverse conditions

3.1 Weather and climate information, including warnings, are continually monitored, in accordance with workplace procedures, to determine ongoing suitability

- of preventative actions
- 3.2** Preventative actions are adjusted and revised in relation to weather and climatic changes, in accordance with workplace procedures
- 4 Return to normal operations**
- 4.1** Weather and climate information, including warnings, are monitored, in accordance with workplace procedures, to determine when normal and safe weather conditions have returned
- 4.2** Renewable energy plant, equipment and civil assets are inspected for damage, in accordance with workplace procedures and manufacturers' recommendations
- 4.3** Renewable energy plant, equipment and civil assets are placed back into service, in accordance with workplace procedures and manufacturers' recommendations
- 4.4** Preventative actions are reviewed and recommendations are developed to improve processes, in accordance with workplace procedures
- 5 Complete documentation**
- 5.1** Documentation is updated, in accordance with workplace procedures
- 5.2** Completed documentation is forwarded to authorised 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS359A Monitor Climatic Conditions for Renewable Energy Production.

Links

Companion Volume implementation guides are found in VETNet -

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