



Australian Government

UEPOPS064 Monitor climatic conditions for renewable energy production

Release: 1

UEPOPS064 Monitor climatic conditions for renewable energy production

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 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.

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.

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|--|---|
| 1 Interpret weather and climate information | <ul style="list-style-type: none">1.1 Weather and climate information, including warnings, are monitored to determine conditions in accordance with workplace procedures1.2 Work health and safety (WHS)/occupational health and safety (OHS) regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, environmental requirements and workplace procedures are identified, applied and monitored1.3 Potential variations in weather and climate conditions are anticipated and assessed for warnings, weather patterns and historical experience in accordance with workplace procedures1.4 Impact of weather and climate on renewable energy plant, equipment and civil assets are identified in accordance with workplace procedures1.5 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 | <ul style="list-style-type: none">2.1 Preventative actions are identified in accordance with manufacturers' recommendations and specifications, and workplace procedures2.2 Stakeholders and key personnel are consulted in the development of preventative actions in accordance with workplace procedures2.3 Preventative actions are reviewed to ensure availability of resources, safety of personnel, renewable energy plant and equipment in accordance with workplace procedures2.4 Actions to minimise loss and damage of renewable energy plant, equipment and civil assets are implemented in accordance with manufacturers' recommendations and specifications, and workplace procedures2.5 Actions to ensure safety of personnel are implemented in accordance with workplace procedures |
| 3 Monitor weather and climate during adverse conditions | <ul style="list-style-type: none">3.1 Weather and climate information, including warnings, are continually monitored to determine ongoing suitability of preventative actions in accordance with |

		workplace procedures
	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 to determine when normal and safe weather conditions have returned in accordance with workplace procedures
	4.2	Renewable energy plant, equipment and civil assets are inspected for damage in accordance with manufacturers' recommendations and specifications, and workplace procedures
	4.3	Renewable energy plant, equipment and civil assets are placed for service in accordance with manufacturers' recommendations and specifications, and workplace procedures
	4.4	Preventative actions are reviewed and recommendations 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 UEP Electricity Supply Industry - Generation Sector Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS359 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>

Assessment Requirements for UEPOPS064 Monitor climatic conditions for renewable energy production

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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
 - risk control measures
 - safe working practices
- carrying out preventative actions
- communicating with stakeholders and key personnel
- completing documentation using recording procedures
- identifying renewable energy plant status
- implementing regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- interpreting weather and climate conditions and possible impact on renewable energy plant, equipment and civil assets using data analysis techniques and tools
- monitoring weather and climate during adverse conditions
- organising resources
- preparing renewable energy plant and/or equipment for operation
- using manuals.

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:

- arrangements of renewable energy power production plant
- climate and weather patterns in area
- manuals
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- renewable energy plant and equipment, location and operating parameters

- renewable energy plant status
- weather and climate conditions and possible impact on renewable energy plant, equipment and civil assets
- WHS/OHS requirements, including:
 - emergency procedures
 - 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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