



Australian Government

UEPOPS447 Coordinate photovoltaic solar power plant operations

Release: 1

UEPOPS447 Coordinate photovoltaic solar power plant operations

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 undertake the coordination of photovoltaic solar power plant operations.

A photovoltaic solar power plant operation typically consists of a large scale Photovoltaic System (P.V.) system designed for the supply of power into the electricity grid. The solar power source is via photovoltaic modules that convert light directly to electricity.

Competency in this unit requires the ability to coordinate plant operations, monitor plant operations, test plant operations, analyse plant faults and report operation against strategy requirements. Individuals will, in general, work as an operator with responsibility for photovoltaic solar power plant coordination, 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

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Coordinate plant operations

1.1 Photovoltaic solar power plant operational procedures are implemented, in accordance with workplace procedures

1.2 Resources and supplies are coordinated to meet photovoltaic solar power plant requirements, in accordance with workplace procedures

2 Monitor plant operations

2.1 Deviations from photovoltaic solar power plant operations are identified and recorded, in accordance with workplace procedures

2.2 Photovoltaic solar power plant operation and condition is monitored, in accordance with workplace procedures and legislative requirements

2.3 Requirements that may impact on photovoltaic solar power plant operations are monitored, in accordance with workplace procedures

2.4 Photovoltaic solar power plant operations are monitored to meet legislative, industry and site requirements, in accordance with workplace procedures

3 Test plant operation

3.1 Operational tests are performed on photovoltaic solar power plant, in accordance with workplace procedures

3.2 Photovoltaic solar power plant is observed for correct operational response, in accordance with workplace procedures

3.3 Corrective action is taken, in accordance with workplace procedures, when response does not meet with documentation, photovoltaic solar power plant integrity or personnel safety requirements

3.4 Photovoltaic solar power plant is returned to required operational status upon completion of testing, in accordance with workplace procedures

4 Analyse plant faults

4.1 Causes of abnormal photovoltaic solar power plant operating conditions are identified, in accordance with workplace procedures, by analysing technical and

- operational information
- 4.2 Corrective actions to rectify faults are determined, in accordance with workplace procedures
 - 4.3 Photovoltaic solar power plant integrity and personnel safety are maintained, in accordance with workplace procedures, and through consultation with personnel and technical and operational documentation
 - 4.4 Appropriate personnel, including specialists, are arranged for investigation of identified photovoltaic solar power plant operational abnormalities, in accordance with workplace procedures
- 5 Report operation against strategy requirements**
- 5.1 Data is collected and processed for review, in accordance with workplace procedures and operational strategy
 - 5.2 Photovoltaic solar power plant operation or condition is reported, in accordance with workplace procedures and legislative requirements
 - 5.3 Abnormal photovoltaic solar power plant operating conditions are reported, in accordance with workplace procedures
 - 5.4 Changes to operational strategy are coordinated, 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 UEPOPS447A Coordinate photovoltaic solar power plant operations.

Links

Companion Volume implementation guides are found in VETNet -

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