



Australian Government

UEPOPS355 Monitor the implementation of under frequency load shedding

Release: 1

UEPOPS355 Monitor the implementation of under frequency load shedding

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 implement and monitor under frequency load shedding for isolated and integrated generation network systems.

Under frequency load shedding is the deliberate shutdown of electric power in a part or parts of the power system to prevent the failure of the entire system. It is generally caused by overloading a power source or problems with a prime mover such as a turbine.

Competency in this unit requires the ability to plan work, set under frequency load shedding, respond to under frequency load shedding operation and the completion of all documentation. 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 for load shedding

- 1.1 Safety issues Work, Health and Safety (WHS)/Occupational Health and Safety(OHS) regulations are identified, in accordance with workplace procedures and site requirements
- 1.2 Work tasks, load shedding plant and resource requirements are identified from relevant information and documentation, in accordance with workplace procedures
- 1.3 Checks are carried out on under frequency load shedding plant, in accordance with workplace procedures and site requirements

2 Set under frequency load shedding

- 2.1 Individual load source data is collated, assessed, evaluated and prioritised, in accordance with workplace procedures
- 2.2 Data is assessed against trends, in accordance with workplace procedures, to determine suitability for load shed selection
- 2.3 Load data is grouped and summed into stages of priority to match generator or unit output, in accordance with workplace procedures
- 2.4 Selected load shedding is implemented, in accordance with workplace procedures
- 2.5 Staged load data is monitored and recalculated to detect deviations from parameters, in accordance with workplace procedures

3 Respond to under frequency load shedding operation

- 3.1 Load data is monitored and selections are adjusted, in accordance with workplace procedures, to maintain values within permissible parameters
- 3.2 Stakeholders are consulted and corrective action is determined for load shedding deviations, in accordance with workplace procedures

4 Complete documentation

- 4.1 Load shedding status is reported, in accordance with

workplace procedures

- 4.2 Documentation is updated, 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 UEPOPS355B Monitor the implementation of under frequency load shedding.

Links

Companion Volume implementation guides are found in VETNet -

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