



Australian Government

UEPOPS057 Manage system restart

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 manage a power generation system restart after the islanding and shutdown of the system and network.

A restart is the process of restoring an electric power generating facility to operation without relying on an external transmission network. Power generation system restarts allow parts of the power system to be re-energised through black start equipped generation capacity following a black out.

Competency in this unit requires the ability to identify cause for power generating system restart, restore power generating system and document work. Individuals will, in general, work as an operator with responsibility for managing system restarts in a power generation facility.

Power generation plant operators are 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.

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 Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

1 Identify cause for system/network restart

- 1.1** Probable implications of power generation system restart are identified from relevant personnel and documentation in accordance with workplace procedures
- 1.2** 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 monitored
- 1.3** Secondary threats to power generation system restart are identified and monitored in accordance with workplace procedures
- 1.4** Power generation capability is evaluated in accordance with workplace procedures
- 1.5** Power generation system configuration is evaluated in accordance with workplace procedures
- 1.6** External information is collated and assessed in accordance with workplace procedures
- 1.7** Probable cause of power generation system shutdown is identified from available information and resources in accordance with workplace procedures
- 1.8** Communication with key stakeholders is established in accordance with workplace procedures
- 1.9** Roles and work tasks are identified in consultation with relevant personnel in accordance with workplace procedures

2 Restore system/network generation

- 2.1** Power generation system restart response is managed in accordance with workplace procedures
- 2.2** Power generation system restart responses are prioritised in accordance with workplace procedures
- 2.3** Contingency management plan, including power generation system restart, is actioned in accordance with workplace procedures
- 2.4** Additional resources are coordinated and directed, as required, in accordance with workplace procedures

- 2.5 Restart plans are monitored, evaluated and adjusted, as required, in accordance with workplace procedures
- 3 Document work**
- 3.1 Equipment failure or system restart problems are recorded and processed in accordance with workplace procedures
- 3.2 Feedback from key stakeholders is recorded in accordance with workplace procedures
- 3.3 Reports are generated and distributed to relevant personnel in accordance with workplace procedures
- 3.4 Alternative restart plans or recommendations are communicated to relevant 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 UEPOPS437 Manage system restart.

Links

Companion Volume implementation guides are found in VETNet -

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