



Australian Government

UEPOPS043 Interpret and analyse multi-operation protection devices

Release: 1

UEPOPS043 Interpret and analyse multi-operation protection devices

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 interpret and analyse multi-operation high voltage (H.V.) protection devices.

Power protection schemes aim to keep the power system stable by isolating only faulty plant or equipment to ensure the network is operational. The devices that are used to protect the power system are called protection devices.

Competency in this unit requires the ability to respond to a protection operation, interpret and determine cause of protection operation, restore protection and complete documentation. Individuals will, in general, work under supervision, in a power generation facility as an operator.

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

UEPOPS001 Analyse single operation protection devices

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 Respond to multi-operation protection

- 1.1** Protection operation is confirmed, and multi-operation protection devices are identified for use 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** Apparatus affected is identified in accordance with workplace procedures
- 1.4** Targets, flags and alarms are identified and recorded in accordance with workplace procedures
- 1.5** Stakeholders are advised in accordance with workplace procedures

2 Interpret and determine cause of multi-operation protection

- 2.1** Information to external stakeholders is recorded in accordance with workplace procedures
- 2.2** Information for internal use on use of multi-operation protection devices is collated and assessed in accordance with workplace procedures
- 2.3** Sequence of events prior to and following recognition of fault and use of multi-operation protection devices are identified and assessed in accordance with workplace procedures
- 2.4** Multi-operation protection devices are assessed and evaluated in accordance with workplace procedures
- 2.5** Findings from assessment of multi-operation devices are analysed to determine probable cause of fault in accordance with workplace procedures

3 Restore protection

- 3.1** Stakeholders are informed of analysis findings and plan of action in accordance with workplace procedures
- 3.2** Multi-operation protection device indicators are reset in accordance with workplace procedures

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| | 3.3 | Corrective action is taken in relation to identified fault in accordance with workplace procedures |
| 4 Complete documentation | 4.1 | Records are maintained and all use of multi-operation protection devices are documented in accordance with workplace procedures |
| | 4.2 | Reports are 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 UEPOPS426 Interpret and analyse multi-operation protection devices.

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>