



Australian Government

UEPOPS117 Operate local L.V. switchgear

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 undertake the local operation of low voltage (L.V.) switchgear.

An L.V. switchgear is a combination of electrical disconnect switches, fuses or circuit breakers used to control, protect and isolate electrical equipment. Switchgears de-energise equipment to allow work to be undertaken and to clear faults downstream in electricity power systems.

Competency in this unit requires the ability to plan and prepare L.V. secondary switchgear; operate switchgear; and validate, test and report on L.V. switchgear integrity. 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

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 Prepare to operate L.V. switchgear | 1.1 | Work requirements 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 | Location of L.V. switchgear is determined from relevant drawings, plans and maps in accordance with workplace procedures |
| | 1.4 | Switchgear type and operating procedure is identified in accordance with workplace procedures |
| | 1.5 | L.V. switchgear condition is assessed for safe operation in accordance with workplace procedures |
| | 1.6 | Related L.V. switchgear protection is suppressed in accordance with workplace procedures |
| 2 Conduct L.V. switchgear operation | 2.1 | Mechanical operation and limitations of L.V. switchgear are identified in accordance with workplace procedures |
| | 2.2 | Implications of L.V. switchgear actions are identified, in accordance with workplace procedures |
| | 2.3 | L.V. switchgear is operated and required status is confirmed in accordance with workplace procedures |
| | 2.4 | Racking, testing, isolation, circuit earthing and reinstatement processes are carried out in accordance with workplace procedures |
| | 2.5 | Test equipment integrity is confirmed and L.V. switchgear circuit is de-energised in accordance with workplace procedures |
| 3 Validate and report L.V. switchgear integrity | 3.1 | L.V. switchgear is inspected for safe operation in accordance with workplace procedures |
| | 3.2 | L.V. switchgear environment is inspected in accordance with workplace procedures |
| 4 Complete documentation | 4.1 | L.V. switchgear plant problems, movements and status are 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 UEP Electricity Supply Industry – Generation Sector Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS357 Operate local L.V. switchgear

Links

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