



Australian Government

UEPOPS114 Operate H.V. condition changing apparatus

Release: 1

UEPOPS114 Operate H.V. condition changing apparatus

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 operation of all high voltage (H.V.) condition changing apparatus.

H.V. condition changing apparatus can include on- and off-load transformer tap changers, capacitor banks, rotary converters, voltage regulators, reactors, current limiters, rectifiers and transformers. H.V. changing apparatus works within system parameters such as voltage, current, frequency, volt ampere reactive load and equipment capability.

Competency in this unit requires the ability to plan and prepare work, operate H.V. condition change apparatus and report on H.V. condition during operation. 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 H.V. condition changing apparatus | <ul style="list-style-type: none">1.1 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 monitored1.2 Location of H.V. condition changing apparatus is determined from plans, drawings, system diagrams and maps in accordance with workplace procedures1.3 H.V. condition changing apparatus for operation is identified and confirmed with relevant personnel in accordance with workplace procedures1.4 Condition and status of H.V. condition changing apparatus is determined visually in accordance with workplace procedures1.5 H.V. condition changing apparatus is prepared for operation in accordance with workplace procedures |
| 2 Conduct H.V. condition changing apparatus operation | <ul style="list-style-type: none">2.1 Relevant personnel are advised of progress during H.V. condition changing apparatus operation in accordance with workplace procedures2.2 Conditions are evaluated prior to H.V. changing apparatus operation in accordance with workplace procedures2.3 H.V. condition changing apparatus is operated in accordance with manufacturers' recommendations and specifications, and workplace procedures2.4 H.V. condition changing apparatus is controlled and adjusted to achieve outcomes in accordance with workplace procedures2.5 H.V. condition changing apparatus is examined for operation in accordance with manufacturers' recommendations and specifications, and workplace procedures2.6 Conditions are re-evaluated to confirm H.V. condition changing apparatus outcome in accordance with workplace procedures2.7 H.V. condition changing apparatus is secured in accordance with workplace procedures |

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| | 2.8 | Status of H.V. condition changing apparatus is confirmed in accordance with workplace procedures |
| 3 Complete documentation | 3.1 | Equipment problems, movements and status are reported in accordance with workplace procedures |
| | 3.2 | 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 UEPOPS351 Operate H.V. condition changing apparatus.

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for UEPOPS114 Operate H.V. condition changing apparatus

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria on at least two separate occasions and include:

- applying work health and safety (WHS)/occupational health and safety (OHS) regulations, including:
 - emergency procedures
 - personal protective equipment (PPE)
 - risk control measures
 - safety working practices
- communicating with personnel
- completing documentation
- identifying high voltage (H.V.) condition changing apparatus status
- implementing regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- interpreting manuals
- operating H.V. apparatus
- planning H.V. condition changing apparatus work
- using manuals
- working with permit to work system.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria and include knowledge of:

- arrangement for power generation plant
- permit to work system
- plant and equipment, location and operating parameters
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- manuals
- WHS/OHS requirements, including:

- emergency procedures
- PPE
- risk control measures
- safety working practices
- workplace documentation
- workplace policy and procedures.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, equipment and PPE currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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