



Australian Government

UEPOPS351 Operate H.V. condition changing apparatus

Release: 1

UEPOPS351 Operate H.V. condition changing apparatus

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 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 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 Prepare to operate H.V. condition changing apparatus

- 1.1** Safety requirements for operating High Voltage (H.V.) condition changing apparatus are adhered to, in accordance with Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) regulations, legislative requirements, industry standards, manufacturers' specifications and workplace procedures
- 1.2** Location of H.V. condition changing apparatus is determined from plans, drawings, system diagrams and maps, in accordance with workplace procedures
- 1.3** H.V. condition changing apparatus to be operated, is identified and confirmed, with relevant personnel, in accordance with workplace procedures
- 1.4** Condition and status of H.V. condition changing apparatus is determined visually, in accordance with workplace procedures
- 1.5** H.V. condition changing apparatus is prepared for operation, in accordance with workplace procedures

2 Conduct H.V. condition changing apparatus operation

- 2.1** Relevant personnel are advised of progress during H.V. condition changing apparatus operation, in accordance with workplace procedures
- 2.2** Conditions are evaluated prior to H.V. changing apparatus operation, in accordance with workplace procedures
- 2.3** H.V. condition changing apparatus is operated in accordance with workplace procedures and manufacturers' recommendations
- 2.4** H.V. condition changing apparatus is controlled and adjusted to achieve desired outcomes, in accordance with workplace procedures
- 2.5** H.V. condition changing apparatus is examined, in accordance with workplace procedures, to ensure it has functioned correctly

- 2.6** Conditions are re-evaluated to confirm correct H.V. condition changing apparatus outcome, in accordance with workplace procedures
 - 2.7** H.V. condition changing apparatus is secured, in accordance with workplace procedures
 - 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS351B 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 UEPOPS351 Operate H.V. condition changing apparatus

Modification History

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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, performance criteria and range of conditions on at least two separate occasions and includes:

- applying Workplace 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 H.V. condition changing apparatus status
- implementing legislation, industry standards, codes of practice and regulations
- interpreting manufacturers' specifications and manuals
- operating High Voltage (H.V.) apparatus
- planning H.V. condition changing apparatus work
- using manufacturers' specifications and 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, performance criteria and range of conditions and includes knowledge of:

- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals
- permit to work system
- plant and equipment, its location and operating parameters
- typical arrangement for power generation plant
- WHS/ OHS regulations including:
 - emergency procedures

- Personal Protective Equipment (PPE)
- risk control measures
- safety working practices
- workplace documentation
- workplace policy and procedures

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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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.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

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 personal protective equipment currently used in industry
- applicable documentation including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

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