



Australian Government

UEPOPS011 Conduct multiple energy source isolation procedures for permit to work

Release: 1

UEPOPS011 Conduct multiple energy source isolation procedures for permit to work

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 for the application of permit to work procedures where multiple energy sources require isolation for safe access to high voltage (HV), low voltage (LV) and mechanical apparatus.

Permits to work are a formal system used to control high-risk activities in power generation facilities. They specify the control measures that will be put in place to minimise risks. Permits ensure that all hazards and precautions have been considered before any hazardous work begins.

Competency in this unit requires the ability to plan and prepare for isolation, de-isolation and restoration; perform isolation and perform de-isolation and restoration. Individuals will, in general, work as an operator 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

UEPOPS017 Conduct single energy source isolation procedures for permit to work

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 Plan and prepare for multiple energy source isolation

- 1.1** Work requirements, including permit to work, are identified from relevant personnel and site inspection 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** Materials, tools, equipment and resources, and permit to work requirements are requisitioned and inspected for compliance in accordance with workplace procedures
- 1.4** Isolation work is sequenced in accordance with permit to work and workplace procedures
- 1.5** Isolation work is prioritised in accordance with permit requirements and workplace procedures
- 1.6** Permit to work and risk assessment are coordinated with other personnel involved and affected by isolations in accordance with workplace procedures
- 1.7** Personnel participating in work are briefed and roles and responsibilities are confirmed in accordance with workplace procedures

2 Perform multiple energy source isolation

- 2.1** Multiple energy source to be isolated is correctly identified in accordance with workplace procedures
- 2.2** Isolation is performed in accordance with workplace procedures and permit to work requirements
- 2.3** Verification of isolation, dissipation and restraint of energy sources is performed in accordance with workplace procedures
- 2.4** Isolation is confirmed in accordance with workplace procedures

3 Perform multiple energy source de-isolation and restoration

- 3.1** Multiple energy source de-isolation and restorations are performed in accordance with permits and workplace procedures
- 3.2** Multiple energy source de-isolations are confirmed in

accordance with workplace procedures

- 3.3** Work completion details are finalised 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 UEPOPS402 Conduct multiple energy source isolation procedures for permit to work.

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 UEPOPS011 Conduct multiple energy source isolation procedures for permit to work

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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) requirements, including:
 - emergency procedures
 - hazard identification
 - risk control measures
 - safe working practices
- communicating with personnel and stakeholders
- completing documentation
- coordinating and briefing others on permit to work
- identifying power generating plant status
- implementing regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- interpreting plant drawings, diagrams and manuals
- performing isolations, de-isolations and restorations
- planning and preparing for isolation, de-isolation and restoration
- preparing power generating plant or equipment for isolation operation
- using permit to work system
- working with equipment, tools, materials and resources.

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:

- arrangements of power production plant
- documentation requirements
- isolation, de-isolation and restoration techniques
- mechanical and electrical equipment isolation techniques
- mechanical and electrical isolation equipment types and characteristics

- permit to work system
- plant drawings, diagrams and manuals
- power generating plant and equipment, location and operating parameters
- power generating plant status
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements'
- tools, materials and resources
- WHS/OHS requirements, including:
 - emergency procedures
 - hazard identification
 - risk control measures
 - safe working practices
- workplace documentation
- workplace policies 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 personal protective equipment (PPE) currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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