



Australian Government

UEPOPS017 Conduct single energy source isolation procedures for permit to work

Release: 1

UEPOPS017 Conduct single 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 to conduct single energy source isolation procedures for permits to work.

A permit to work system is a formal method used to control certain types of work that can be potentially hazardous. A permit to work specifies the work to be completed, the precautions to be taken and the timeframe for completion.

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

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 Plan and prepare for single energy source isolation | <ul style="list-style-type: none">1.1 Work requirements, including permits to work, are identified from relevant personnel and site inspection in accordance with workplace procedures1.2 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 monitored1.3 Materials, tools, equipment and resources are obtained and inspected in accordance with workplace procedures1.4 Isolation work is sequenced in accordance with permit requirements and workplace procedures1.5 Isolation work is prioritised in accordance with permit requirements and workplace procedures1.6 Permit to work is coordinated with other personnel involved in, and affected by isolations in accordance with workplace procedures1.7 Personnel participating in work are briefed, with roles and responsibilities confirmed, in accordance with workplace procedures |
| 2 Perform single energy source isolation | <ul style="list-style-type: none">2.1 Single energy source to be isolated is identified in accordance with workplace procedures2.2 Isolation is performed in accordance with permit requirements and workplace procedures2.3 Isolation, dissipation and restraint of energy sources is verified in accordance with workplace procedures2.4 Isolation is confirmed in accordance with workplace procedures |
| 3 Perform single energy source de-isolation and restoration | <ul style="list-style-type: none">3.1 Single energy source de-isolation and restorations are performed in accordance with permit requirements and workplace procedures3.2 Single energy source de-isolations are confirmed in accordance with workplace procedures3.3 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 UEPOPS301 Conduct single 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 UEPOPS017 Conduct single 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
- completing de-isolations and restorations
- 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 power generation plant and equipment diagrams
- obtaining authorisation for single energy source isolation
- 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
- utilising isolations, including lock and tag systems
- 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

- equipment, tools, materials and resources for use
- lock and tag system
- manuals
- permit to work system
- power generating plant and equipment, location and operating parameters
- power generating plant status
- power generation plant and equipment drawings and diagrams
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- single energy source isolations, mechanical isolations, de-isolations and restorations methods and techniques
- WHS/OHS legislated 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.

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