



Australian Government

Assessment Requirements for UETDRDO003 Maintain energised high voltage distribution overhead electrical apparatus (glove and barrier)

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Modification History

Release 1. This is the first release of this unit of competency in the UET Transmission, Distribution and Rail Sector Training Package Release 2.0.

Performance Evidence

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

- applying relevant legislation, regulations, standards, codes of practice and organisational workplace requirements, including:
 - work health and safety (WHS)/occupational health and safety (OHS)
- identifying hazards, assessing risks, identifying, applying and monitoring control measures
- obtaining, inspecting and using relevant personal protective equipment (PPE)
- determining communication method with safety observer
- confirming safety observer is in position in accordance with workplace requirements
- installing/replacing all of the following:
 - structure
 - cross-arm
 - strain insulator
 - pin insulator
 - connecting bridge/bonding connections
- installing/maintaining at least four (4) of the following:
 - pole mounted reclosers
 - air brake switches
 - high voltage (HV) links/disconnects
 - temporary HV links/HV fuses
 - expulsion drop-out fuses
 - lightning arrestors
 - conductors
 - vibration dampers, line splices, armour rods or aircraft warning markers
- working from an approved elevated work platform (EWP)
- using at least one (1) of the following testing and recording devices:
 - amp meter

- insulation test equipment
- leakage detector
- voltage detector
- dealing with an unplanned event on at least one (1) occasion
- organising, issuing, cancelling or relinquishing relevant work permits/approvals in accordance with workplace requirements
- completing relevant work records, reports and documentation.

Knowledge Evidence

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

- relevant legislation, regulations, standards, codes of practice, and organisational workplace requirements, including:
 - WHS/OHS
 - live work up to and including 33 kV HV glove and barrier principles, techniques and procedures
- hazard, risk assessment and risk control requirements, including potential hazards
- types and application of PPE
- safe use of plant, tools and equipment
- application, purpose and types of work permits
- events constituting an unplanned event or incident
- procedures for responding to an unplanned event or incident
- safety precautions for HV live distribution glove and barrier work, including:
 - minimum approach distances/safe approach distances
 - effects of excessive conductor temperature on insulating equipment
 - types and application of PPE
 - integrity of insulation
 - emergency response, first aid and rescue
 - disabling auto-reclose function
 - network access and communication
- definition of terms for HV live work glove and barrier method
- mobile plant, including:
 - types
 - care and maintenance
 - frequency of testing
 - earthing
- insulated barriers, sticks, tools and equipment, including:
 - types, construction and characteristics
 - application
 - care and maintenance

- frequency of testing
- gloves and sleeves, including:
 - types, construction and characteristics
 - application
 - care and maintenance
 - frequency of testing
- operational use of plant, sticks, tools and equipment, including:
 - conductor support
 - selecting conductor support method
 - calculation of loads
 - effects of secondary loadings/forces
 - effects of resultant forces
 - conductor support rigging procedures
- safety observer:
 - role and responsibilities
 - communication methods.

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 conditions involving realistic and authentic activities that replicate operational 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:

- relevant and appropriate materials, tools, equipment and PPE currently used in industry to maintain energised HV distribution overhead electrical apparatus (glove and barrier)
- applicable documentation, including workplace requirements, equipment specifications, regulations, codes of practice and operation manuals.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb13ecfad7>