



Australian Government

UETDRIS030 Install high voltage mobile generator

Release: 1

UETDRIS030 Install high voltage mobile generator

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 4.0.

Application

This unit includes the skills and knowledge required to install a high voltage (HV) mobile generator in the electricity supply industry (ESI).

It includes selecting, connecting, synchronising, operating and disconnecting of a temporary mobile generator to HV network assets to maintain supply.

Note: Entry into this unit is for users who:

- *hold the unit UETDREL005 Work safely in the vicinity of live electrical apparatus or equivalent,*

and

- *hold a UET Certificate III Qualification or the equivalent issued in an Australian state or territory,*

or

- *hold an Electrician or Electrical Fitter licence or the equivalent issued in an Australian state or territory,*

or

- *hold an Electrician or Electrical Fitter qualification or the equivalent issued in an Australian state or territory.*

Electricians or Electrical Fitters are still required to complete the unit UETDRIS032 Solve problems in network equipment or equivalent to meet the requirements of working within the electricity supply industry (ESI).

The application of the skills and knowledge described in this unit may require a licence/registration to practice in the workplace.

Other conditions may also apply under state and territory legislative and regulatory licensing requirements which must be confirmed prior to commencing this unit.

Pre-requisite Unit

Refer to Application.

Competency Field

Industry Specific Cross Discipline

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to install HV mobile generator

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Legislation, regulations, standards, codes of practice and organisational workplace requirements for the work to be done are reviewed and determined

1.2 Work plan is obtained, confirmed and communicated with relevant personnel in accordance with workplace requirements

1.3 Materials required for work are determined and obtained in accordance with work plan and workplace requirements

1.4 Plant, tools, equipment and personal protective equipment (PPE) required for work are determined, obtained and confirmed in working order

1.5 Hazards are identified, risks assessed and control measures identified and applied

1.6 Work is prioritised and sequenced for completion in accordance with work plan and workplace requirements

1.7 Worksite is prepared in accordance with the work plan and workplace requirements

2 Install HV mobile generator

2.1 Legislation, regulations, standards, codes of practice and organisational workplace requirements for the work to be performed are applied and monitored

2.2 Work permits are received and signed in accordance with workplace requirements

- 2.3 Lifting, working at heights, working in confined spaces and the use of plant, tools, equipment and PPE are carried out in accordance with workplace requirements
 - 2.4 Hazard control measures are monitored in accordance with workplace requirements
 - 2.5 HV mobile generator is installed in accordance with workplace requirements
 - 2.6 HV mobile generator is synchronised to HV network in accordance with the work plan and workplace requirements
 - 2.7 HV mobile generator is monitored in accordance with the work plan and workplace requirements
- 3 Complete work and documentation**
- 3.1 Completed work is checked for compliance against the work plan and workplace requirements
 - 3.2 Worksite is rehabilitated, cleaned and made safe in accordance with workplace requirements
 - 3.3 Work permits are signed off in accordance with workplace requirements
 - 3.4 Plant, tools and equipment are cleaned, checked and returned to storage in accordance with workplace requirements
 - 3.5 Surplus materials are returned to storage or disposed of in accordance with workplace requirements
 - 3.6 Work records, reports and documentation are completed in accordance with workplace requirements

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 UET Transmission, Distribution and Rail Sector

Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is not equivalent to UETDRIS016 Install mobile generation set for synchronised HV Genset.

Links

Companion Volume Implementation Guides are found in VETNet -

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

Assessment Requirements for UETDRIS030 Install high voltage mobile generator

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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 (2) 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) requirements
- identifying hazards, assessing risks, and identifying, applying and monitoring control measures
- obtaining, inspecting and using relevant personal protective equipment (PPE)
- dealing with an unplanned event on at least one (1) occasion
- obtaining and signing work permits in accordance with workplace requirements
- completing relevant work records, reports and documentation
- high voltage (HV) generator principles, including:
 - evaluating load and assessing suitability
 - operating
 - connecting
 - disconnecting
 - synchronising onto the HV network without interruption to supply
 - removal from the HV network without interruption to supply.

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 requirements
- hazard, risk assessment and risk control requirements
- types and application of PPE
- safe use of plant, tools and equipment
- application, purpose and types of permits
- events constituting an unplanned event or incident

- procedures for responding to an unplanned event or incident
- workplace records, reports and documentation
- techniques for connecting, operating and disconnecting of generators, including:
 - synchronising of generator control systems onto the network without interruption to supply
 - removal of generator from network without interruption to supply
 - evaluating load
 - assessing generator suitability
 - multiple generators
 - operating generators in parallel on a HV circuit
 - safety precautions.

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
- applicable documentation, including workplace requirements, equipment specifications, regulations, codes of practice and operation manuals.

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