
UETTDREL999Y Identify and apply controls for alternate supplies on the distribution network

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.

Application

This unit involves the skills and knowledge required to identify and apply controls for alternate supplies on the distribution network in the electricity supply industry (ESI).

It includes identifying potential alternate supplies and applying control measures while performing work on or near the de-energised distribution network.

It also includes monitoring control measures for the alternate supplies to manage two-way power flow.

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

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UETTDREL16Y Work safely in the vicinity of live electrical apparatus

Competency Field

Entry Level Cross Discipline

Unit Sector

Not Applicable.

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 Prepare to work on the distribution network | 1.1 Legislation, regulations, standards, codes of practice and workplace requirements for the work to be performed are referred to and confirmed |
| | 1.2 Alternate supplies are identified and control measures are applied in accordance with workplace requirements |
| | 1.3 Hazards are identified, risks assessed and control measures identified and applied |
| | 1.4 Work permits are organised in accordance with workplace requirements |
| | 1.5 Tools, equipment and personal protective equipment (PPE) required for work are identified, obtained and confirmed in working order |
| | 1.6 Worksite is prepared in accordance with workplace requirements |
| 2 Carry out work on the distribution network | 2.1 Legislation, regulations, standards, codes of practice and organisational workplace requirements for the work to be performed are applied |
| | 2.2 Work permits are received and signed in accordance with workplace requirements |
| | 2.3 Control measures are monitored for alternative supplies in accordance workplace requirements |
| | 2.4 Manual handling, the use of tools, equipment and PPE are carried out in accordance with workplace requirements |
| | 2.5 Work is carried out on the distribution network in accordance with workplace requirements |
| | 2.6 Incidents or unplanned events are responded to in accordance with workplace requirements |
| 3 Complete work and documentation | 3.1 Work is completed and control measures removed from the worksite in accordance with workplace requirements |
| | 3.2 Work permits are signed off in accordance with workplace requirements |
| | 3.3 Worksite is rehabilitated, cleaned and made safe in accordance with workplace requirements |

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- 3.4** Incidents or unplanned events are reported in accordance with workplace requirements
 - 3.5** Tools and equipment are cleaned, checked and returned 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 is a new unit.

Links

Companion Volume implementation guides are found in VETNet - LINK POPULATED ON PUBLICATION

Assessment Requirements for UETTDREL999Y Identify and apply controls for alternate supplies on the distribution network

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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 separate occasions and include:

- applying relevant legislation, regulations, standards, codes of practice and 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)
- identifying potential alternate supplies
- identifying control measures to manage alternate supplies
- implementing control measures for alternate supplies including:
 - isolation points
 - earthing
 - bonding
 - low voltage short circuited
- monitoring control measures for the alternate supplies to manage two-way power flow
- dealing with an unplanned event on at least one (1) occasion
- obtaining and signing on and off relevant work permits 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 workplace requirements including:
 - WHS/OHS

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- hazard, risk assessment and risk control requirements including:
 - potential hazards
 - alternating current (a.c.) and direct current (d.c.) potential hazards
 - inverter specific faults
 - PV faults
 - battery faults
 - types and application of personal protective equipment (PPE)
 - specialised test equipment
 - range of alternate supplies including:
 - concept, application and operation
 - anti-islanding control and protection
 - system monitoring and load management
 - identification of alternate supplies from:
 - signage
 - visual
 - registers
 - alternate supplies including:
 - photovoltaic (PV) systems
 - battery systems
 - awareness of unknown alternate supplies including:
 - uninterruptable power supply (UPS)
 - engine driven
 - impacts of two-way power flow connected to the grid
 - control measures for alternate supplies
 - application, purpose and types of permits
 - events constituting an unplanned event or incident
 - procedures for responding to an unplanned event or incident
 - procedures for workplace records, reports and documentation.

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, relevant industry standards, regulations, codes of practice and operation manuals.

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