



Australian Government

UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus

Release: 2

UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus

Modification History

Release 2. Amended Competency Field

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 operate plant and equipment in the vicinity of live electrical apparatus in the electricity supply industry (ESI).

It includes operating plant and equipment safely up to the defined safe approach distance.

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

Other conditions may 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

Competency Field

Entry Level

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to operate plant and equipment

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 performed are referred to and confirmed

- 1.2** Work plan is obtained and confirmed in accordance with workplace requirements
- 1.3** Hazards are identified, risks assessed and control measures identified and applied
- 1.4** Work permits are received and signed in accordance with workplace requirements
- 1.5** Plant, equipment and personal protective equipment (PPE) required for work are determined, obtained and confirmed in working order
- 1.6** Safe approach distances are determined and confirmed in accordance with workplace requirements
- 1.7** Safety observer role and responsibilities are discussed and confirmed in accordance with workplace requirements
- 1.8** Communication method between the workers and safety observer is determined and confirmed in accordance with workplace requirements
- 1.9** Worksite is prepared in accordance with the work plan and workplace requirements
- 1.10** Traffic management plan is confirmed as being in place in accordance with workplace requirements

2 Operate plant and equipment

- 2.1** Legislation, regulations, standards, codes of practice and organisational workplace requirements for the work to be performed are applied and monitored
- 2.2** Hazard control measures are monitored in accordance with workplace requirements
- 2.3** Safety observer is positioned to observe the plant or equipment in accordance with workplace requirements
- 2.4** Safe approach distances are maintained when operating plant and equipment in the vicinity of live electrical apparatus
- 2.5** Communication methods between workers and safety observer are used in accordance with workplace requirements

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| | 2.6 | Plant and equipment are safely operated in the vicinity of live electrical apparatus in accordance with workplace requirements |
| | 2.7 | Incidents or unplanned events are responded to in accordance with workplace requirements |
| 3 Complete work and documentation | 3.1 | Incidents or unplanned events are reported 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 |
| | 3.4 | Plant and equipment are cleaned, checked and returned to storage in accordance with workplace requirements |
| | 3.5 | 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 equivalent to UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus.

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 UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus

Modification History

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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 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
- confirming safe approach distances
- operating equipment while maintaining the safe approach distance
- operating plant while maintaining the safe approach distance
- determining electricity network voltages, including:
 - low voltage (LV)
 - high voltages (HV)
- obtaining and signing on and off relevant work permits in accordance with workplace requirements
- dealing with an unplanned event on at least one (1) occasion
- 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
 - safe approach distances

- hazard, risk assessment and risk control requirements, including potential hazards:
 - conductor movements - swing, sag or blow off
- types and application of PPE
- safe use of plant and equipment in the vicinity of live electrical apparatus
- application, purpose and types of permits
- events constituting an unplanned event or incident
- procedures for responding to an unplanned event or incident
- safety observer:
 - role and responsibilities
 - communication methods
- plant and equipment, including:
 - operating characteristics
 - terminology related to operating in the vicinity of live electrical apparatus
 - hazards and potential hazards
 - communication methods and barriers between plant/equipment operator and safety observer
- characteristics of overhead and underground electricity networks, including:
 - transmission, distribution and rail
 - layout/configuration
 - components
 - voltage levels.

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, facilities, equipment and PPE currently used in industry for operating plant and equipment in the vicinity of live electrical apparatus
- applicable documentation, including workplace requirements, relevant industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

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