



Australian Government

**Assessment Requirements for
UETDRC001 Work safely around
powerlines as an ordinary person**

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the Transmission, Distribution and Rail Sector Training Package Release 5.0.

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 one occasion and include:

- applying relevant regulations, guidelines, codes of practice and organisational workplace requirements for working safely around powerlines
- identifying powerline infrastructure
- determining relevant powerline voltages to determine minimum approach distance
- determining the ordinary person minimum approach distance(s)
- assessing the work for potential encroachment by person(s) into the minimum approach distance(s) and for at least one (1) of the following:
 - vegetation
 - plant and equipment
 - tools
 - material
- identifying hazards, assessing risks, identifying, applying and monitoring control measures
- determining communication method with safety observer in accordance with workplace requirements
- confirming safety observer is in position in accordance with workplace requirements
- preparing, assessing and where relevant communicating the worksite plan
- monitoring the site conditions for change
- responding to an incident
- reporting an incident.

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 regulations, guidelines, codes of practice and organisational workplace requirements for working safely around powerlines, including:
 - minimum approach distances
 - emergency procedures

- hazard, risk assessment and risk control requirements, including potential hazards
- relevant powerline identification tools
- site conditions and the changes that can occur
- assessment of minimum approach distance encroachment for:
 - person(s)
 - vegetation
 - plant and equipment
 - tools
 - material
- visual powerline markers
- earthing of mobile plant
- events constituting an incident
- procedures for responding to an incident including:
 - techniques for exiting vehicle/plant
 - stay
 - call for help
 - wait
 - escape
- safety observer's:
 - role and responsibilities
 - communication methods
- basic electrical principles, including:
 - voltage, current and resistance
 - typical effects of current, including physiological effects and induced voltages
 - consequences of short circuits, including arc flash, and touch and step potentials
- infrastructure including:
 - voltages (distribution and transmission)
 - earthing systems
 - structures and associated equipment
 - layouts and configuration
 - basic electrical powerline protection
 - underground powerlines and associated equipment
- impact of earthworks around the powerline infrastructure
- impact of contact with the powerline infrastructure.

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 powerline infrastructure
- applicable documentation, including workplace requirements, regulations, guidelines, codes of practice.

Links

Companion Volume Implementation Guides are found in VETNet -

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