



Australian Government

**Assessment Requirements for
UETDRDU021 Joint, terminate and
maintain underground polymeric cable
33kV and above**

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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 4.0.

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 (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)
- identifying hazards, assessing risks, and identifying, applying and monitoring control measures
- obtaining, inspecting and using relevant personal protective equipment (PPE)
- obtaining and signing on and off relevant work permits in accordance with workplace requirements
- interpreting and using drawings, diagrams and instructions
- completing at least two (2) of the following cable tests:
 - continuity
 - insulation resistance
 - phase identification
- jointing, terminating and maintaining at least one (1) of the following 33 kilovolt (kV) and above cable types:
 - cross-linked polyethylene (XLPE) cables
 - ethylene propylene rubber (EPR) cables
- completing the following cable joints:
 - straight through joint
 - termination
- 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:

- legislation, regulations, standards, codes of practice, and organisational workplace

- requirements including, WHS/OHS requirements
- hazard, risk assessment and risk control requirements including potential hazards
- types and application of PPE
- safe use of tools and equipment
- application, purpose and types of permits
- cable alignment and identification
- work plan requirements, including:
 - types and layout of drawings
 - manufacturer's instructions
 - testing plan
 - quality checklist
 - workplace documentation procedures
- polymeric cables 33 kV and above including:
 - types and sizes
 - construction, characteristics and properties
 - electrical stress control
 - minimum bending radius
- cable jointing, terminating and maintenance requirements for cables 33 kV and above including:
 - cable handling techniques
 - jointing principles, techniques and procedures
 - cable repair techniques and procedures
 - types of cable damage/defects
 - use of test equipment
 - testing procedures.

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, manufacturers specifications, 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>