



**Australian Government**

# **Assessment Requirements for UETDRSB010 Maintain capacitor bank equipment**

**Release: 1**

# Assessment Requirements for UETDRSB010 Maintain capacitor bank equipment

## 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) requirements
- identifying hazards, assessing risks, 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 relevant work permits in accordance with workplace requirements
- completing relevant work records, reports and documentation
- maintaining at least two (2) of the following types of capacitor bank systems:
  - double star neutral current unbalance
  - voltage unbalance
  - floating star
  - earthed star
  - harmonic filter
  - series
- maintaining at least two (2) of the following components:
  - internal discharge resistor cans
  - external resistor type
  - switching reactors
  - neutral unbalance current transformer
- performing at least three (3) of the following types of tests:
  - insulation resistance
  - capacitance
  - unbalance current/voltage
  - primary injection
  - high voltage (HV) direct current d.c. withstand.

## 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, including potential hazards
- 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
- operational manuals and system diagrams
- capacitor banks, including:
  - types
  - characteristics
  - isolation and discharge
  - maintenance requirements
  - common defects and rectification
- testing, including:
  - insulation resistance
  - capacitance
  - unbalance current/voltage
  - primary injection
  - HV direct current d.c. withstand
- ancillary components, including:
  - internal discharge resistor cans
  - external resistor type
  - switching reactors
  - neutral unbalance current transformer
- specialised tools, including:
  - types, construction and function
  - calibration
  - care and maintenance.

## 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.

## **Links**

Companion Volume Implementation Guides are found in VETNet -

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