



Australian Government

Assessment Requirements for UETDRRT010 Maintain rail traction bonds

Release: 1

Assessment Requirements for UETDRRT010 Maintain rail traction bonds

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.

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)
- maintaining at least two (2) of the following types of connecting bond cables and components:
 - covered or bare aluminium bonds
 - copper bonds
 - steel bonds
 - steel rail
- using at least three (3) of the following types of equipment, tools and testers required for maintaining rail traction bonds:
 - bonding specific tools
 - crimping devices
 - thermal moulds
 - rail drill
 - bonding fittings
 - explosive power tools
 - meter or tester
- 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
- 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
- rail traction bonds maintenance documents
- traction bond and cables, including:
 - temporary and permanent bonding preparation and installation methods
 - applications for temporary and permanent bonding
 - components of temporary and permanent bonds
 - interface between traction and signalling circuits
- safe working procedures/practices when carrying out temporary and permanent bonding, including:
 - PPE
 - electrical and visual testing of the PPE
- maintenance of traction bond, cables and equipment, including:
 - types and components
 - types and function of tools and equipment
 - maintenance/repair procedures
 - inspection and recording procedures
- diagnosis and correction of simple faults in traction bonds, including:
 - types and causes
 - determination of appropriate corrective actions
 - repair and replace procedures
- events constituting an unplanned event or incident
- procedures for responding to an unplanned event or incident.

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 maintaining rail traction bonds
- applicable documentation, including workplace requirements, maintenance documents, 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>