



Australian Government

Assessment Requirements for UETDRRT003 Install rail traction bonds

Release: 1

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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 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)
- installing 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 installing 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
- traction bond and cables, including:
 - permanent bonding preparation and installation methods
 - applications for permanent bonding
 - components of permanent bonds
 - interface between traction and signalling circuits
- safe working procedures/practices when carrying out permanent bonding, including:
 - PPE
 - electrical and visual testing of the PPE
- installation of temporary traction bonds and cables, including:
 - types and purpose of tools and equipment
 - installation and removal methods
 - testing for electrical integrity of bonds and cables
- installation of permanent traction bonds and cables, including:
 - types and purposes of tools and equipment
 - installation and removal methods
 - testing for electrical integrity of bond, cables and equipment
- 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 installing rail traction bonds

- applicable documentation, including workplace requirements, relevant design standards, 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>