



Australian Government

Assessment Requirements for TLIS2004 Install and maintain rail bonding systems

Release: 2

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Modification History

Release 2. This is the second release of this unit of competency in the TLI Transport and Logistics Training Package:

- Minor statement clarification to PC 4.2
- Minor statement changes in Assessment Conditions.

Release 1. This is the first release of this unit of competency in the TLI Transport and Logistics Training Package.

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 three separate occasions and include:

- applying relevant safeworking and workplace procedures
- communicating effectively with others
- completing relevant documentation
- guiding operators of plant and equipment and using appropriate signals when installing and maintaining cables
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- implementing contingency plans
- interpreting and following operational instructions and prioritising work
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring work activities in terms of planned schedule
- organising activities in accordance with workplace procedures and work plan
- reading and interpreting relevant technical data, drawings, work plans, instructions and manuals
- reporting and/or rectifying identified problems, faults or malfunctions, in accordance with workplace procedures
- selecting and using relevant equipment and tools
- working collaboratively with others
- working systematically with required attention to detail without injury to self or others, or damage to goods or equipment.

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:

- applicable state/territory legislated rail safety requirements, relevant codes of practice and/or guidelines
- characteristics, capabilities and uses of various types of cables
- circuits for signalling and communications systems awareness as a non-electrical rail safety worker
- current capacities, inductance and capacitance, protection systems and devices
- electrical hazard awareness including voltage and current transformation, voltage drop, cable and traction systems
- joint test and fault identification/location workplace procedures
- problems that may occur when installing and maintaining rail bonding systems and action that can be taken to report or resolve these problems
- rail industry standards for installing and maintaining rail bonding systems
- switching operation, isolation and access permit procedures
- testing and commissioning procedures, including testing and earth/rail connecting conductors
- traction earthing systems and bonding systems
- work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- workplace documentation and records systems
- workplace procedures for installing and maintaining rail bonding systems for non-electrical rail safety workers.

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 or, where this is not available, in simulated workplace operational situations that replicate rail corridor 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:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- applicable documentation including workplace procedures, regulations, rail industry standards, codes of practice and operation manuals.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>