



Australian Government

TLIB2096 Repair concrete/masonry structures

Release: 2

TLIB2096 Repair concrete/masonry structures

Modification History

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

- Minor statement changes in Knowledge Evidence
- 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.

Application

This unit involves the skills and knowledge required to repair concrete/masonry structures and their components in accordance with safeworking and regulatory requirements, and workplace procedures.

It includes determining job requirements, preparing components, performing repairs and cleaning up the site after maintenance activities.

People achieving competence in this unit will need to fulfil the applicable state/territory legislated rail safety requirements and to comply with relevant codes of practice and/or guidelines.

Work is performed under minimal supervision, generally within a team environment. It involves the application of routine operational principles and procedures when repairing concrete/masonry structures and their components, as part of workplace activities across a variety of operational contexts within the Australian rail system.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

B – Equipment Checking and Maintenance

Unit Sector

Rail sector.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Determine job requirements

1.1 Structures are inspected as required to locate defects

1.2 Hazards are identified, risks are assessed and control measures are implemented

1.3 Scope of work and resources required are identified

1.4 Job is planned in accordance with availability of required resources

2 Prepare components for repair

2.1 Components requiring repair are identified and isolated or marked in accordance with workplace procedures

2.2 Materials required for job are identified and organised as required to enable appropriate repair of components

3 Perform repairs

3.1 Defective area is removed in accordance with workplace procedures

3.2 Repairs are carried out to required standard in accordance with workplace procedures

4 Clean up site

4.1 Workplace procedures and environmental regulations and standards relevant to site clean-up are confirmed and clarified as required

4.2 Waste is minimised and reused or disposed of in accordance with relevant workplace procedures and environmental regulations and standards

4.3 Cleaning products and materials are disposed of in accordance with relevant workplace procedures and environmental regulations and standards

4.4 Established site restoration practices are followed and problems with these practices are identified and reported

5 Complete documentation

5.1 Required documentation procedures and processes are confirmed

5.2 Documentation is filled in legibly and proofread

- 5.3** Documentation is processed in accordance with workplace procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions can be found in the TLI Transport and Logistics Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLIB2096A Repair concrete/masonry structures.

Links

Companion Volume Implementation Guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>

Assessment Requirements for TLIB2096 Repair concrete/masonry structures

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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 workplace procedures
- following operational instructions and work sequences
- identifying defects in accordance with workplace procedures
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- implementing contingency plans
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring work activities in terms of planned schedule
- reading and interpreting relevant plans and specifications
- repairing a range of defect types
- repairing existing concrete/masonry structures using a range of repair techniques
- reporting and/or rectifying identified problems, faults or malfunctions promptly, in accordance with regulatory requirements and workplace procedures
- selecting and using relevant tools and 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:

- basic concrete construction techniques
- concrete/masonry structure repair methods and techniques
- functions of different types of concrete/masonry structures
- hazards that may exist when repairing concrete/masonry structures and ways of controlling

the risks involved

- problems that may occur during the repair of structures and action that can be taken to report or resolve these problems
- relevant recording and documentation procedures
- relevant work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- relevant rail industry standards
- safety data sheets (SDS)/material safety data sheets (MSDS) and/or manufacturer instructions, technical data sheets (TDS) and workplace procedure information on the use of epoxy and grouts for mortar pads and cracks
- workplace procedures for repairing concrete/masonry structures.

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.

Practical assessment must occur in an appropriate range of situations, using repair techniques and defect types in the workplace.

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 SDS/MSDS, workplace procedures, rail industry standards, regulations, codes of practice and operation manuals.

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