



Australian Government

TLIB2081 Repair timber structures

Release: 2

TLIB2081 Repair timber structures

Modification History

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

- Minor Performance Evidence added
- 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 timber structures and their components, in accordance with safeworking and regulatory requirements, and workplace procedures.

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

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 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** Job requirements are determined in accordance with workplace procedures, and scope of work and resources required are identified

2 Prepare component for repair

- 2.1** Components requiring replacement are checked against standards and are measured for preparation of replacement component
- 2.2** Materials required for job are identified and organised as required to enable appropriate replacement of components
- 2.3** Replacement components are cut and shaped to the required standard in accordance with workplace procedures
- 2.4** Surfaces of components are treated using appropriate methods and materials as required

3 Perform repairs

- 3.1** Component is replaced to required standard in accordance with workplace procedures
- 3.2** Connections between timber members are tightened, repaired or replaced using approved material and techniques
- 3.3** External timber deficiencies in components are treated with suitable materials as required to minimise degradation of components

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 TLIB2081A Repair timber 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 TLIB2081 Repair timber 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:

- adapting to differences in tools, equipment and work requirements in accordance with operating procedures
- applying relevant workplace procedures
- communicating effectively with others
- following operational instructions and work sequences when undertaking timber structures repair
- 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
- reading and interpreting relevant plans and specifications
- repairing a range of defect types
- repairing existing timber structures using a range of repair techniques
- replacing timber components in accordance with workplace procedures
- 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
- 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:

- carpentry principles
- functions of different types of timber structures
- hazards that may exist when repairing structures and/or components, and ways of controlling the risks involved
- problems that may occur during the repair of structures and/or components, and action that can be taken to report or resolve the problems
- relevant rail danger zones
- relevant recording and documentation procedures
- safety data sheets (SDS)/material safety data sheets (MSDS) and/or manufacturer instructions
- timber structures repair methods and techniques
- types of timber and their characteristics and features
- work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- workplace procedures for the repair of timber structures and/or components.

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 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 simulated practical and knowledge assessments
- 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.

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