



Australian Government

TLIB2086 Apply awareness of structures fundamentals

Release: 2

TLIB2086 Apply awareness of structures fundamentals

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 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 apply awareness of structures fundamentals in accordance with approved rail industry standards, safeworking and regulatory requirements, and workplace procedures.

It includes identifying types of structures, structures terminology and conventions, and defect categories; and locating and identifying defects in structures.

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 applying awareness of structures fundamentals, 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 Identify types of bridges and structures	1.1	Principal bridge types and their purpose are identified
	1.2	Other principal structure types and their purpose are identified
2 Identify structures terminology and conventions	2.1	Basic terminology for structures infrastructure is defined
	2.2	Principal components of structures and their purpose are identified
	2.3	Conventions for numbering structures and their components are explained
3 Identify defect categories	3.1	Types of defect are identified
	3.2	Conventions for categorising defects are explained
4 Locate structures defects	4.1	Hazards are identified, risks are assessed and control measures are implemented
	4.2	Tools and equipment for visual inspection of structures are identified and selected
	4.3	Previously identified defects in structures are located and identified
	4.4	Defects in structures are located and identified

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.

Unit Mapping Information

This unit replaces and is equivalent to TLIB2086A Apply awareness of structures fundamentals.

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 TLIB2086 Apply awareness of structures fundamentals

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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 one occasion and include:

- applying relevant workplace procedures
- following operational instructions and work sequences when locating defects in structures
- identifying job hazards and required action to minimise, control or eliminate identified hazards
- reading and interpreting relevant instructions, procedures, information, technical data, standards and drawings
- selecting equipment for a basic structure inspection
- undertaking a basic structures inspection.

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:

- defect categories/types convention
- fundamentals of structure types
- hazards that may exist when locating defects in structures and ways of controlling the risks involved
- problems that may occur when locating defects in structures and action that can be taken to report or resolve these problems
- relevant rail danger zones
- relevant work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- structures components
- structures terminology and conventions
- types of structures defects
- workplace procedures for locating defects in 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.

Assessment must occur in workplace operational situations or, where this is not available, in simulated workplace operational situations that replicate 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.

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