



Australian Government

TLIB3088 Examine steel structures

Release: 2

TLIB3088 Examine steel structures

Modification History

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

- Performance Evidence frequency changed
- 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 examine steel structures in accordance with safeworking and regulatory requirements, and workplace procedures.

It includes obtaining all relevant previous reports, performing a detailed examination, initiating appropriate necessary actions and completing all required 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 conducting a detailed steel structures examination, 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	Obtain previous reports	1.1	Operational history of structure from available sources is reviewed
		1.2	Previous defects identified in reports are noted to enable rechecking of problem areas
		1.3	Relevant personnel are contacted to identify reported complaints or indications of wear or damage
2	Perform detailed examination	2.1	Hazards are identified, risks are assessed and risk control measures are implemented
		2.2	Steel structures and components are visually inspected and checked for signs of buckling, cracking, corrosion, deterioration and damage in accordance with workplace procedures
		2.3	Connections between steel components are visually inspected and checked for signs of wear, looseness, cracking, corrosion, deterioration and damage in accordance with workplace procedures
		2.4	Protective coatings on steel structures and components are visually inspected and checked for condition
		2.5	Relevant inspection aids are used to perform detailed inspection to identify defects in accordance with workplace procedures
		2.6	Defects or deficiencies are identified in accordance with workplace procedures
3	Take appropriate actions	3.1	Major defects affecting safe passage are acted on as soon as possible in accordance with workplace procedures
		3.2	Defects and deficiencies are reported to enable repairs to be conducted in a timely manner

4	Complete documentation	4.1	Examination schedule or work report data is completed in accordance with workplace procedures
		4.2	Documentation on work undertaken is completed and processed in accordance with workplace requirements

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 TLIB3088A Examine steel 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 TLIB3088 Examine steel 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 two separate occasions and include:

- applying relevant workplace procedures
- communicating effectively with others when conducting a detailed steel structures examination
- examining a range of structure types
- following operational instructions and work sequences when undertaking steel structures examination
- identifying relevant sections of applicable state/territory legislated rail safety requirements, codes of practice and/or guidelines
- identifying, selecting and using measuring instruments and equipment
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring work activities in terms of planned schedule
- operating and adapting to differences in equipment in accordance with operating procedures
- planning and organising remedial work
- reading and interpreting relevant plans and specifications
- reporting and/or rectifying identified problems, faults or malfunctions, in accordance workplace procedures
- taking appropriate action for identified steel structures defects
- working collaboratively with others when conducting a detailed steel structures examination.

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:

- fault detection techniques
- hazards that may exist when conducting a detailed steel structures examination and ways of controlling the risks involved
- problems that may occur when conducting a detailed steel structures examination and action that can be taken to report or resolve these problems
- relevant rail danger zones
- relevant recording and documentation procedures
- relevant work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- safety data sheets (SDS)/material safety data sheets (MSDS) and/or manufacturer instructions
- steel structures examination methods and techniques
- workplace procedures for conducting a detailed steel structures examination.

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 in the rail environment.

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 include access to:

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

Links

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