



Australian Government

Department of Education, Employment and Workplace Relations

TLIB2083A Maintain bridge bearings

Release: 1

TLIB2083A Maintain bridge bearings

Modification History

Not Applicable

Unit Descriptor

Unit Descriptor

This unit involves the skills and knowledge required to maintain bridge bearings in accordance with safeworking and regulatory requirements and workplace procedures. It includes determining job requirements, maintaining bridge bearings, cleaning up the site after maintenance activities, and completing documentation. Licensing or certification requirements are not applicable to this unit.

Application of the Unit

Application of the Unit

Persons achieving competence in this unit will need to fulfil the applicable legislated rail safety requirements including acts and regulations from each state and territory together with any nationally approved compliance codes and/or guidelines.

Work is performed under minimal supervision, generally within a team environment. It involves the application of routine operational principles and procedures to the maintenance of bridge bearings as part of workplace activities across a variety of operational contexts within the Australian rail system.

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Not Applicable

Employability Skills Information

Employability Skills This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Determine job requirements	1.1 Bridges are inspected as necessary to locate bearings requiring maintenance 1.2 Job requirements are determined in accordance with workplace procedures, including identification of scope of work and resources required
2 Perform bearing maintenance	2.1 Components requiring maintenance are cleaned and prepared in accordance with workplace procedures 2.2 Bearing components are maintained to standard in accordance with workplace procedures
3 Clean up site	3.1 Site is cleaned up to ensure it is restored and environmentally sound and safe in accordance with workplace procedures and environmental regulations and standards
4 Complete documentation	4.1 Work report documentation is completed as required in accordance with workplace procedures

Required Skills and Knowledge

REQUIRED KNOWLEDGE AND SKILLS

This describes the essential knowledge and skills and their level required for this unit.

Required knowledge:

- Relevant safety, OH&S and environmental procedures and regulations
- Workplace procedures for the maintenance of bridge bearings
- Problems that may occur during the maintenance of bridge bearings, and action that can be taken to report or resolve the problems
- Hazards that may exist when maintaining bridge bearings, and ways of controlling the risks involved
- Functions of different types of bridge bearings
- Routine maintenance methods and techniques
- Relevant recording and documentation procedures

Required skills:

- Communicate effectively with others when maintaining bridge bearings
- Read and interpret plans and specifications relevant to the maintenance of bridge bearings
- Follow operational instructions and work sequences when undertaking the maintenance of

Required skills:

bridge bearings

- Complete documentation related to the maintenance of bridge bearings
- Operate communication equipment to required protocol
- Work collaboratively with others when doing the maintenance of bridge bearings
- Promptly report and/or rectify any identified problems, faults or malfunctions that may occur when doing the maintenance of bridge bearings in accordance with regulatory requirements and workplace procedures
- Implement contingency plans for unexpected events that may arise during the maintenance of bridge bearings
- Apply precautions and required action to minimise, control or eliminate hazards that may exist during work activities
- Monitor work activities in terms of planned schedule
- Modify activities depending on differing operational contingencies, risk situations and environments
- Select and use relevant tools and equipment
- Adapt to differences in tools and equipment and work requirements in accordance with standard operating procedures
- Select and use required personal protective equipment
- Identify minor defects

Evidence Guide**EVIDENCE GUIDE**

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and skills, the range statement and the assessment guidelines for this Training Package.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

- The evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria of this unit and include demonstration of applying:
 - the underpinning knowledge and skills
 - relevant legislation and workplace procedures
 - other relevant aspects of the range statement
- Assessment must include exercises which demonstrate competent performance of the following in a range of situations:
 - inspecting bearings and determining work

EVIDENCE GUIDE

- requirements
- routine cleaning and servicing of bridge bearings
 - cleaning up worksite
 - completing workplace documentation
- Context of and specific resources for assessment**
- Performance is demonstrated consistently over a period of time and in a suitable range of contexts
 - Resources for assessment include:
 - a range of relevant exercises, case studies and/or other simulated practical and knowledge assessment, and/or
 - access to an appropriate range of relevant operational situations in the workplace
 - In both real and simulated environments, access is required to:
 - relevant and appropriate materials and equipment, and
 - applicable documentation including workplace procedures, regulations, codes of practice and operation manuals
- Method of assessment**
- Assessment of this unit must be undertaken by a registered training organisation
 - As a minimum, assessment of knowledge must be conducted through appropriate written/oral tests
 - Practical assessment must occur:
 - in an appropriate range of situations in the workplace

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance.

- Operations may be conducted:
- by day or night
 - in all weather conditions
- Work may involve:
- exposure to chemicals, and dangerous or hazardous substances
 - movements of equipment, goods and vehicles
- Structures may include:
- underbridges
 - overbridges

RANGE STATEMENT

- Bearing types may include:
- footbridges
 - fixed
 - sliding
 - floating
- Equipment may include:
- manual tools
 - small power tools
 - jacks
 - scaffolding
 - ladders
 - elevated work platform (EWP)
 - boat/barge
- Materials may include:
- cleaning products
 - oil and grease
 - bolts and fasteners
- Structures maintenance methods may include:
- cleaning housings
 - clearing vegetation
 - tightening bolts
 - removing corrosion
 - resetting
 - oiling and/or greasing
- Liaison may include:
- internal/external personnel from other work areas (e.g. train controllers)
 - road authorities
 - local councils
 - landowners
- Communication equipment systems may include:
- two-way radios
 - telephones/mobile phones
 - agreed audible or hand signals
- Depending on the type of organisation concerned and the local terminology used, workplace procedures may include:
- company procedures
 - enterprise procedures
 - organisational procedures
 - established procedures
- Depending on work context, safety and personal protective equipment may include:
- high visibility clothing
 - hearing protection
 - gloves
 - sunscreen
 - sunglasses
 - safety glasses
 - insect repellent

RANGE STATEMENT

- safety headwear
 - safety footwear
 - portable radio/mobile phone
 - hand lamps
 - flags
 - respirators
 - safety devices
- Information/documents may include:
- operational instructions, policies and workplace procedures
 - local authorities procedures
 - work orders
 - technical instructions
 - manufacturers or workplace equipment instructions and operation manuals
 - emergency procedure manuals
 - two-way radio/mobile phone operation procedures
 - QA plans, data and document control
 - conditions of service, legislation and industrial agreements including workplace agreements and awards
- Information may be provided:
- electronically
 - in writing, via forms/documents/plans
 - orally, via face-to-face communications
 - via trackside signals
- Applicable regulations and legislation may include:
- legislated rail safety requirements including acts and regulations from each applicable state and territory together with any nationally approved compliance codes and/or guidelines
 - relevant state/territory regulations, codes of practice and safeworking system requirements
 - relevant Australian Standards and related requirements, including AS 4292
 - relevant state/territory OH&S legislation
 - relevant state/territory environmental protection legislation

Unit Sector(s)

Not Applicable

Competency Field

Competency Field

B - Equipment Checking and Maintenance