



Australian Government

Department of Education, Employment and Workplace Relations

TLIS2012A Install and service rail lubrication equipment

Release: 1

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Modification History

Not Applicable

Unit Descriptor

Unit Descriptor

This unit involves the skills and knowledge required to install and service rail lubrication equipment in accordance with safeworking and regulatory requirements and workplace procedures. It includes installing the lubrication equipment, servicing and monitoring the lubrication equipment, removing lubrication equipment, and completing all required documentation. Licensing or certification requirements are not applicable to this unit.

Application of the Unit

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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 some supervision, generally within a team environment. It involves the application of routine operational principles and procedures to install and service rail lubrication equipment 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 Install lubricator	1.1 Identify work location 1.2 Rail is correctly prepared at lubrication site to enable correct fitting of lubricator 1.3 Lubricator is installed and tested to ensure correct functionality in accordance with workplace procedures
2 Service and monitor lubricator	2.2 Lubricator is cleaned and correctly adjusted to ensure correct functionality 2.3 Parts are replaced as required to ensure correct functionality 2.4 Lubricator is filled with appropriate lubricant 2.5 Lubricator is checked and adjusted to maintain correct functionality
3 Remove lubricator	3.2 Preparations for the removal of the lubricator are made in accordance with workplace procedures 3.3 Lubricator is correctly removed and stowed in accordance with workplace procedures
4 Complete documentation	4.2 Required documentation is completed 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 installation and service of rail lubrication equipment
- Problems that may occur during the installation and service of rail lubrication equipment, and action that can be taken to report or resolve the problems
- Hazards that may exist during the installation and service of rail lubrication equipment, and ways of controlling the risks involved
- Basic mechanical knowledge relevant to the installation and service of rail lubrication equipment
- Principles of rail lubrication and lubrication equipment
- Relevant workplace technical manuals and instructions
- Characteristics of relevant equipment, materials, structures, hardware and components used in work activities

REQUIRED KNOWLEDGE AND SKILLS

- Hazardous situations and related personal protection measures
- Relevant recording and documentation procedures

Required skills:

- Communicate effectively with others when installing or servicing rail lubrication equipment
- Read and interpret technical data, drawings, instructions and manuals relevant to the installation and service of rail lubrication equipment
- Interpret and follow operational instructions and perform work in correct sequence
- Complete documentation related to the installation and service of rail lubrication equipment
- Operate electronic communication equipment to required protocol
- Promptly report and/or rectify any identified problems, faults or malfunctions that may arise when installing or servicing rail lubrication equipment in accordance with regulatory requirements and workplace procedures
- Apply precautions and required action to minimise, control or eliminate hazards that may exist during work activities
- Check compliance between work and job specifications
- Monitor work activities in terms of planned schedule
- Modify activities depending on differing operational contingencies, risk situations and environments
- Work systematically with required attention to detail without injury to self or others, or damage to goods or equipment
- Select and use relevant equipment and tools
- Adapt to differences in equipment in accordance with standard operating procedures
- Select and use required personal protective equipment conforming to industry and OH&S standards

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

- 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:

EVIDENCE GUIDE

unit

- 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:
 - installing a rail lubricator
 - adjusting the pump to supply optimum grease delivery or replacing a gasket set

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:
 - through activities in an appropriately simulated environment at the registered training organisation, and/or
 - 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

RANGE STATEMENT

environments and situations that may affect performance.

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|---|---|
| Operations may be conducted: | <ul style="list-style-type: none">• by day or night• in all weather conditions |
| Work may be conducted in: | <ul style="list-style-type: none">• restricted spaces• exposed conditions• controlled or open environments |
| Work may involve exposure to: | <ul style="list-style-type: none">• chemicals• dangerous or hazardous substances• movements of equipment, goods and vehicles |
| Rail lubrication equipment to be installed and/or serviced may include: | <ul style="list-style-type: none">• any used within the Australian rail systems |
| Resources may include: | <ul style="list-style-type: none">• hand tools and small plant• rail lubrication components• rail borer |
| Materials may include: | <ul style="list-style-type: none">• rail fastenings• rail grease |
| Communications systems may include: | <ul style="list-style-type: none">• two-way radios• telephones/mobile phones• agreed audible or hand signals |
| Depending on work context, safety and personal protective equipment may include: | <ul style="list-style-type: none">• high visibility clothing• hearing protection• gloves• sunscreen• sunglasses• safety glasses• insect repellent• safety headwear• safety footwear• portable radios/mobile phones• hand lamps• flags• safety devices |
| Depending on the type of organisation concerned and the local terminology used, workplace procedures may include: | <ul style="list-style-type: none">• company procedures• enterprise procedures• organisational procedures• established procedures |
| Information may be provided: | <ul style="list-style-type: none">• electronically |

RANGE STATEMENT

Information/documents may include:

- in writing, via forms/documents/plans
- orally, via face-to-face communications
- operational instructions, policies and workplace procedures
- relevant logs or record books
- work orders
- maintenance notices, records and requests
- 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

Applicable procedures and codes 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 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

S - Construction and Installation