



Australian Government

TLIU4011A Apply environmental procedures to rail operations

Release 1

TLIU4011A Apply environmental procedures to rail operations

Modification History

Release 1. This is the first release of this unit.

Unit Descriptor

This unit involves the skills and knowledge required to care for the environment during rail operations in accordance with approved standards, safeworking and regulatory requirements and organisational procedures.

It includes minimising the effects of pollution during work, reporting any environmental breaches and completing documentation in accordance with environmental protection regulations and guidelines.

Licensing or certification requirements are not applicable to this unit.

Application of the Unit

Work must be carried out in accordance with relevant state/territory environmental protection regulations and organisational procedures.

Licensing/Regulatory Information

Refer to Unit Descriptor.

Pre-Requisites

Nil

Employability Skills Information

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

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| 1 Minimise the effects of pollution during work | <ul style="list-style-type: none">1.1 Precautions are taken to ensure spilt fuel, lubricants, chemicals and noxious plants do not pollute the environment1.2 Equipment and vehicles are operated efficiently to minimise air pollution through excessive exhaust emissions1.3 Unnecessary running of engines/equipment is avoided to minimise air pollution1.4 Workplaces are kept clean and tidy during work operations and waste is disposed of in accordance with environmental regulations and organisational procedures1.5 Noise pollution from work is minimised |
| 2 Respond to environmental incidents | <ul style="list-style-type: none">2.1 Hazard is identified and extent of potential impact is determined2.2 Appropriate personal protective equipment is identified, selected and worn/used as required2.3 Hazard is managed or isolated as required or instructed2.4 Actions are taken to minimise environmental impact2.5 Incident is reported to relevant personnel in accordance with organisational procedures |

Required Skills and Knowledge

This section describes the knowledge and skills required for this unit.

Required knowledge:

- Environmental hazards and toxicity of materials typically carried in loads
- Environmental protection standards required during rail operation activities
- Environmental risks when undertaking rail operations and related precautions to control the risk
- Geographical location of waterways and environmentally sensitive areas such as:
 - bio sites
 - culturally sensitive sites
- How to use the correct containment tools
- Information/documents such as:
 - award, enterprise bargaining agreement, other industrial arrangements
 - codes of practice for environmental protection
 - emergency procedures manuals
 - goods identification numbers and codes
 - licence conditions
 - manifests, bar codes, goods and container identification
 - manufacturer instructions concerning the use and servicing of equipment
 - quality assurance procedures
 - regulations and policies concerning noise, waste disposal/reprocessing, handling of dangerous goods/hazardous substances and other environmental protection issues
 - standards and certification requirements
 - workplace housekeeping procedures and policies
- Relevant Australian Standards
- Relevant legislated rail safety requirements including state and territory acts and regulations, and nationally approved compliance codes and/or guidelines
- Relevant safety, work health and safety (WHS)/occupational health and safety (OHS) and environmental protection regulations
- Service and maintenance procedures
- Site layouts including location of waste disposal bins
- Typical problems that can occur when caring for the environment, and appropriate action that can be taken to prevent or solve them

Required skills:

- Adapt to differences in equipment and operating environment in accordance with standard operating procedures
- Complete documentation/communication related to the care of the environment during rail

operation activities

- Identify and correctly use equipment and vehicles in accordance with environmental protection regulations and guidelines
- Modify activities depending on operational contingencies, risk situations and environments
- Promptly report and/or rectify any identified problems that may arise when caring for the environment during rail operations activities in accordance with regulatory requirements and organisational procedures
- Read and interpret instructions, procedures and information relevant to the care of the environment during rail operation activities
- Recognise potential pollution risks and ways of minimising them
- Select and use required personal protective equipment conforming to industry, WHS/OHS and environmental standards

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 following:

- required knowledge and skills
- relevant legislation and organisational procedures.

Context of and specific resources for assessment

Performance is demonstrated consistently over time and in a suitable range of contexts.

Resources for assessment include access to:

- a range of relevant exercises, case studies and/or other simulated practical and knowledge assessment, and/or
- 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 organisational procedures, regulations, codes of practice and operation manuals.

Method of assessment

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

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

Environment may include:	• atmospheric • indoor • outdoor • waterways
Pollutants may include:	• chemicals and detergents • exhaust fumes • fuel • gas • noise • noxious weeds • oils and lubricants • rubbish • smoke • wastes
Equipment/vehicles may include:	• motive power units • motor vehicles • on-track vehicles • railcars • small machinery
Clean-up equipment may include:	• bio-degradable detergents • spill kits
Work may involve:	• exposure to chemicals, and dangerous or hazardous substances • movements of equipment, goods and vehicles
Organisational procedures may include:	• company procedures • enterprise procedures • established procedures • workplace procedures
Personal protective equipment may include:	• flags • gloves • hand lamps • high visibility clothing • hearing protection • insect repellent • portable radios/mobile phone • safety: • devices

- footwear
- glasses
- headwear
- sunglasses
- sunscreen

Unit Sector(s)

Not applicable.

Competency Field

U – Environment