



Australian Government

Department of Education, Employment and Workplace Relations

TLIW3027A Operate minor track equipment

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit involves the skills and knowledge required to operate minor track equipment. The unit covers equipment that can be manually lifted on or off track, including equipment that can be moved and operated on trolleys.

Minor equipment requires a basic operator skill level in manipulation, coordination, alignment and functional activity, with little complexity or variance in overall activity. It typically covers equipment with basic repetitive and alignment type activities.

Licensing, legislative, regulatory or certification requirements are applicable to this unit.

Application of the Unit

This unit involves applying routine operational principles and procedures when operating minor equipment on track as part of workplace activities across a variety of rail operational contexts.

Persons achieving competence in this unit will need to meet organisational requirements to operate each individual piece of equipment.

Operators may need to have fulfilled licence and/or certification requirements for the type of equipment being used.

Licensing/Regulatory Information

Refer to Unit Descriptor.

Pre-Requisites

Not applicable.

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

ELEMENT PERFORMANCE CRITERIA

1 Perform pre-operational equipment checks	1.1 Detailed pre-operational equipment checks are conducted according to manufacturer specifications and organisational procedures
	1.2 Log books are checked and completed in accordance with organisational requirements and manufacturer specifications
	1.3 Problems with equipment are identified and rectified in accordance with workplace procedures
	1.4 Identified problems are reported and documented in accordance with organisational procedures
2 Obtain approval to place on track	2.1 Protection officer or person in charge of work (PICOW) is contacted to obtain approval to place minor equipment on track, and move to designated track at nominated location in accordance with organisational procedures
3 Prepare, operate and monitor minor equipment on track	3.1 Equipment is travelled to worksite or nominated signal/yard location
	3.2 Equipment is prepared for work
	3.3 Equipment is operated in a safe and efficient manner in accordance with the relevant codes of practice, safeworking systems, and manufacturer's and organisational procedures
	3.4 Equipment is operated to meet organisational standards and specifications
	3.5 Warning systems are monitored and responded to appropriately during operation
4 Remove equipment from track	4.1 Approval is requested from the protection officer or PICOW to direct when and where to off track equipment
	4.2 Equipment is propelled to nominated off-track location
	4.3 Protection officer or PICOW is contacted and informed that all equipment is off-tracked
	4.4 Equipment is left stored in appropriate manner and location to ensure its security and protection
5 Perform post-operational equipment	5.1 Post-operational equipment checks are conducted according to manufacturer specifications and organisational

procedures

procedures to identify defects and maintenance requirements

5.2 Identified problems are reported in accordance with organisational procedures

5.3 Post-operating service schedule is performed according to organisational procedures

6 Complete documentation

6.1 Log books are checked and completed accurately

6.2 Required documentation is completed in an accurate manner in accordance with organisational 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 legislated rail safety requirements, including acts and regulations from each applicable state or territory
- Relevant OH&S, equal employment opportunity and environmental procedures and regulations
- Organisational procedures for the operation of minor track equipment
- Problems that may occur when operating minor track equipment, and action that can be taken to report or resolve them
- Hazards that may exist when operating minor track equipment, and ways of controlling the risks involved
- Basic knowledge of track structure and geometry where applicable
- Problems that can occur on minor track equipment and related action that should be taken
- Organisational emergency procedures with regard to operating minor track equipment
- Separation distances
- Work on-track rules and regulations overview

Required skills:

- Communicate effectively with others when operating light on-track equipment
- Follow operational instructions
- Complete documentation relating to work activities
- Follow work instructions
- Use appropriate numeric functions when operating light on-track equipment
- Work collaboratively with others when operating light on-track equipment
- Report and rectify within limits of own role identified problems, faults and malfunctions when operating minor track equipment in accordance with regulatory requirements and workplace procedures
- Implement prepared contingency plans for unexpected events when operating minor equipment on track
- Apply precautions and required action to minimise, control or eliminate potential hazards during work activities
- Modify activities depending on differing operational contingencies, risk situations and environments
- Apply fatigue management knowledge and techniques
- Work with required attention to detail without injury to self or others, or damage to goods

or equipment

- Select and use required personal protective equipment (PPE) 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 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

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, 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 environments and situations that may affect performance.

Minor track equipment may include:

- dog pullers
- spike drivers
- ballast scarifiers
- multi-spindle borers
- small sleeper spacers
- dog screw setters/drivers
- power track jacks
- various fastening applicators
- joint lifters
- rail-mounted compressor

Liaison may include:

- protection officer
- PICOW
- fellow workers

Communication systems may include:

- two-way radios
- radio headsets
- telephones, including mobile phones
- agreed audible or hand signals

Depending on work context, safety and personal protective equipment may include:

- high visibility clothing
- hearing protection
- gloves
- sunscreen
- safety glasses
- insect repellent
- safety headwear
- safety footwear
- portable radios and mobile phones
- hand lamps
- flags
- safety devices

Depending on the type of organisation concerned and the local terminology used, organisational procedures may be known as:

- company procedures
- enterprise procedures
- workplace procedures
- established procedures

Information and documents may include:

- relevant legislated rail safety requirements, including acts and regulations from each applicable state or

territory

- operational instructions
- organisational policies and procedures
- relevant log and/or record book
- maintenance notices, records and requests
- local authority regulations and procedures
- technical instructions
- manufacturer's or workplace equipment instructions and operation manuals
- emergency procedure manuals
- two-way radio and mobile telephone operation procedures
- quality assurance (QA) plans, data and document control
- legislation and industrial agreements, including workplace agreements and awards

Unit Sector(s)

Not applicable.

Competency Field

W – Equipment and Systems Operations