



Australian Government

Department of Education, Employment and Workplace Relations

TLIL4042A Control rail traffic movement

Release: 1

TLIL4042A Control rail traffic movement

Modification History

Not Applicable

Unit Descriptor

Unit Descriptor

This unit involves the skills and knowledge required to control rail traffic movement in accordance with workplace procedures and the requirements of relevant safeworking regulations and codes of practice. It includes monitoring the status of the current train area plan; implementing the daily working timetable; controlling rail traffic movement; implementing contingency plans for system faults and failures and for planned events; and updating traffic movement documentation in accordance with workplace requirements. Licensing, legislative, regulatory or certification requirements are 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 operational principles, regulations, safeworking codes, protocols and procedures to the controlling of rail traffic movement as part of workplace activities across a variety of operational contexts within the Australian rail industry.

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 Monitor status of current train area plan | <ul style="list-style-type: none">1.1 Actual train movements and associated activities are analysed to establish current situation1.2 Proposed train movements and associated activities are identified to establish status of area plan in accordance with workplace procedures and policies1.3 Circulars, telegrams and special train notices are checked for accuracy and adjustments made as required1.4 Operational management system information is reviewed against observed status and inconsistencies corrected |
| 2 Implement the daily working timetable | <ul style="list-style-type: none">2.1 Train movements are prioritised and directed in accordance with authorisations to ensure optimum and consistent running to timetable2.2 Relevant information is communicated to internal and external customers to minimise the effect of changes2.3 Planned train movements, circulars and special train notices are implemented using safeworking systems and requirements to ensure safety |
| 3 Control rail traffic movement | <ul style="list-style-type: none">3.1 Layout, characteristics and condition of track section of responsibility is assessed for its effect on train running3.2 Train movements are coordinated with other relevant personnel in accordance with safeworking systems and requirements and workplace policies and practices3.3 Surveillance and alarm systems are monitored to identify emergency situations3.4 Signalling system is operated to ensure track section of responsibility is open or closed to train pathways as required3.5 Signalling systems are operated and monitored to ensure safe movement of traffic |
| 4 Implement contingency plans for system faults and failures, and for planned events | <ul style="list-style-type: none">4.1 Contingency plan to suit the event or system failure or fault is identified and reviewed as necessary4.2 Resources to cover the contingency are deployed in coordination with relevant personnel4.3 Communications with event site are established4.4 Train plan is adjusted in accordance with safeworking systems and requirements and in coordination with relevant personnel to minimise interruptions and provide alternative services4.5 Arrangements are made to maintain communications with internal and external customers where possible4.6 Operational management system information is updated to reflect changes resulting from plan implementation |

ELEMENT**PERFORMANCE CRITERIA****5 Update traffic movement documentation**

- 5.1 Traffic movement documentation is receipted, compiled and recorded to provide accurate basis for train movement
- 5.2 Traffic movement documentation is endorsed at the completion of shift in accordance with workplace requirements to ensure accurate hand-over

Required Skills and Knowledge

REQUIRED KNOWLEDGE AND SKILLS

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

Required knowledge:

- Applicable legislated rail safety requirements including acts and regulations from each state and territory together with any nationally approved compliance codes and/or guidelines
- Relevant OH&S and environmental procedures and regulations including codes of practice for manual handling
- Workplace procedures for the planning and control of train operations, including: workplace management, train movement documentation, radio communication protocol, completing relevant documentation, and procedures to be followed in the event of an emergency
- Train movement principles
- Timetabling principles
- Signalling and control systems and operations
- Track layout, characteristics and conditions
- Track maintenance and work procedures
- Restrictions relating to loads and conditions
- Draw gear capacities
- Communication systems
- Surveillance and alarm systems
- Problems that may occur when controlling rail traffic and related action that should be taken
- Relevant documentation requirements

Required skills:

- Communicate effectively with others when controlling rail traffic
- Give clear instructions relevant to the control of rail traffic
- Read and interpret instructions, procedures and information relevant to the control of rail traffic

Required skills:

- Interpret and follow operational instructions and prioritise work
- Complete documentation and enter data related to the control of rail traffic
- Document train movements and incidents
- Operate electronic communication equipment to required protocol
- Work both individually and collaboratively with others when controlling rail traffic
- Adapt appropriately to cultural differences in the workplace, including modes of behaviour and interactions with others
- Monitor and anticipate operational problems and hazards and take appropriate action
- Promptly report and/or rectify any problems, faults or malfunctions identified when controlling rail traffic in accordance with regulatory requirements and workplace procedures
- Apply safeworking practices and regulations
- Implement contingency plans for unanticipated situations that may occur when controlling rail traffic
- 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
- Meet agreed workplace tolerances for train operations
- Modify activities depending on differing operational contingencies, risk situations and environments
- Apply fatigue management knowledge and techniques
- 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 materials when planning and controlling daily train operations
- 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

- 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

EVIDENCE GUIDE

demonstrate competency in this unit

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 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 environments and situations that may affect performance.

Operations may be conducted:

- by day or night
- in all relevant weather conditions

Work may be conducted in:

- restricted spaces
- exposed conditions

RANGE STATEMENT

Work may involve exposure to:	• controlled or open environments • chemicals • dangerous or hazardous substances • movements of equipment, goods and vehicles
Control of rail traffic movements may require:	• the use of automated and manual signalling combined with centralised train control
Associated activities are those that may affect the movement of trains and include:	• track maintenance • signal maintenance • electrical wiring • diversion/alternative routing of trains • track inspection • construction • environmental work • special events
Events triggering the need for implementing contingency plans may include:	• breakdowns • hazardous materials spills • track damage • washaways • collisions • injuries and fatalities • fires and leaks • powerline damage • derailments
Communication systems may include but are not limited to:	• radios • telephones • faxes • computers • email • internet
Customers can be both internal and external, including:	• other members of a work group or team, crew, section or division of the workplace to whom a service is provided • other work groups or teams, crews, sections or divisions of the workplace to whom a service is provided
Traffic movement documentation can include:	• train timetables • track possessions notices • unplanned event reports • on-track movement
Depending on the type of organisation concerned and the	• company procedures • enterprise procedures

RANGE STATEMENT

local terminology used, workplace procedures may include:

- organisational procedures
- established procedures

Information/documents may include:

- applicable legislated rail safety requirements including acts and regulations from each state and territory together with any nationally approved compliance codes and/or guidelines
- workplace procedures and job specification
- induction and training materials
- protocols for dealing with internal and external customers
- electronic management systems
- information on visual display monitors
- train movement graphs and charts
- two-way radio operation procedures
- emergency procedures manual
- ADG Code
- incident reports
- traffic control equipment operations manuals
- conditions of service, legislation and industrial agreements including workplace agreements and awards

Applicable procedures and codes may include:

- relevant state/territory codes of practice and safeworking system requirements
- relevant state/territory OH&S legislation
- relevant state/territory environmental protection legislation
- relevant Australian Standards
- ADG Code and regulations

Unit Sector(s)

Not Applicable

Competency Field

Competency Field

L - Resource Management