



Australian Government

TLIF5024A Develop plans for emergency response and recovery of rail networks

Release 1

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Modification History

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

Unit Descriptor

This unit involves the skills and knowledge required to develop plans for emergency response and recovery of rail networks. It includes identifying factors that contribute to degraded rail operations; and developing, implementing, monitoring and evaluating emergency response and recovery strategies in accordance with regulatory and organisational requirements. Licensing, legislative or certification requirements are not applicable to this unit at the time of publication.

Application of the Unit

This unit can be applied to freight, heavy haul or metropolitan and regional passenger rail systems.

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 Identify factors that contribute to degraded rail operations | <ul style="list-style-type: none">1.1 Types of rolling stock and typical failures are identified1.2 Track and trackside equipment failures are identified and explained1.3 Operational factors that contribute to degraded rail operations are identified1.4 Control or safety critical system failures that contribute to degraded rail operations are identified1.5 External occurrences that contribute to degraded rail operations are identified1.6 Power supply systems and problems that contribute to degraded rail operations are identified |
| 2 Develop emergency response and recovery strategies | <ul style="list-style-type: none">2.1 Risk assessments are included in developing emergency response and recovery strategies2.2 Policy and procedures are developed to implement emergency response and recovery strategies in accordance with organisational and regulatory requirements2.3 Emergency response and recovery strategies are planned with internal and external stakeholders to ensure compliance with organisational and regulatory standards and requirements2.4 Emergency response and recovery plans are disseminated to appropriate managers and, where required, regulators for approval2.5 Emergency response and recovery plans are amended in response to comments received from managers and regulators (as required)2.5 Emergency response and recovery procedures are documented and communicated to appropriate personnel in accordance with organisational requirements |
| 3 Implement emergency response and recovery strategies | <ul style="list-style-type: none">3.1 Emergency response and recovery strategies are implemented in accordance with organisational and regulatory requirements3.2 Effective induction and supervision are provided to support individuals in meeting their organisational and regulatory responsibilities |
| 4 Monitor, adjust and report emergency response and recovery strategies | <ul style="list-style-type: none">4.1 Emergency response and recovery strategies are monitored and deficiencies are identified4.2 Identified deficiencies are assessed against organisational standards and prioritised for action4.3 Recommendations for improvements to meet organisational and regulatory standards are developed and submitted to designated |

persons/groups

4.4 Agreed improvements and alterations to emergency response and recovery strategies, policies and procedures are implemented in accordance with organisational and regulatory requirements

4.5 Individuals/groups are informed of improvements and alterations to emergency response and recovery strategies

4.6 Systems, records and reporting procedures are maintained in accordance with organisational and regulatory requirements

5 Evaluate emergency response and recovery strategies

5.1 Effectiveness of emergency response and recovery strategies and related policies, procedures and programs is assessed in accordance with organisational and regulatory requirements

5.2 Improvements are identified, developed and implemented to ensure more effective achievement of emergency response and recovery strategies

Required Skills and Knowledge

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

Required knowledge:

- Changes in rail industry operations and technology with implications for degraded operations
- Key principles and practices associated with railway operations
- Rail industry
- Rail industry terminology, including terminology used in technical standards
- Relevant rail safety, emergency management, work health and safety (WHS)/occupational health and safety (OHS) and environmental legislation related to train operations
- Train planning and management systems

Required skills:

- Access and use rail industry standards
- Communicate effectively with others, particularly in relation to emergency response procedures and recovery planning
- Develop and maintain currency of rail industry knowledge and regulatory requirements
- Network and build relationships with a diverse range of rail industry organisations
- Research information related to the rail network, emergency response procedures and recovery planning
- Review changing regulatory information
- Work ethically and in accordance with legislation

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:

- required knowledge and skills
- relevant legislation and workplace procedures
- other relevant aspects of the range statement.

Assessment must include exercises that demonstrate competent performance of the following in a range of situations:

- identifying appropriate emergency response procedures for a given rail operational situation
- reviewing current emergency response procedures and making recommendations for improvement.

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 workplace 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, 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.

Typical failures may include:

- derailments
- safeworking system failures
- signals passed at danger
- train failures or breakdowns

Track and trackside equipment failures may include:

- broken/buckled rails
- defective trainstop
- points failures
- signal failures
- track circuit failures

Operational factors may include:

- maintenance issues
- passenger issues
- possession over-runs
- train crewing issues

Control or safety critical systems may include:

- control room operations
- IT networks
- radios
- safeworking systems
- signal cabins
- telemetry systems

External occurrences may include:

- emergency service operations
- level crossing obstructions
- livestock on tracks
- obstructions on lines
- trackside fires
- trespassers

Power supply systems may include:

- overhead systems
- signal systems
- station power supply

Designated persons/groups may include:

- designated management team
- senior managers
- specialists/technicians
- subject matter experts

Unit Sector(s)

Not applicable.

Competency Field

F – Safety Management