



Australian Government

TLIF0035 Develop safety awareness for a rail environment

TLIF0035 Develop safety awareness in a rail environment

Modification History

Release	Comments
1	This unit of competency was first released in TLI Transport and Logistics Training Package Release 18.0.

Application

This unit describes the skills and knowledge required to develop safety awareness for a rail network environment.

It requires the ability to follow safety precautions for a rail environment, identify the characteristics of a rail corridor, the common risks and hazards in a rail network environment and ways to respond to these.

The unit applies to those who wish to prepare for entry level employment and/or further study in rail transport. It does not provide competence to undertake rail safety work or operate rail systems.

Licensing/Regulatory Information

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite unit(s)

Not applicable.

Competency field(s)

N/A

Unit sector(s)

Rail Sector

Elements and Performance Criteria

Elements	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.

1	Follow safety precautions for a rail environment	1.1	Identify work health and safety/occupational health and safety (WHS/OHS) legislation and regulations for a rail environment
		1.2	Apply rail safety terminology when communicating with others
		1.3	Identify key requirements for medical fitness to work safely within a rail environment
		1.4	Identify signs of fatigue and apply prevention strategies
2	Identify characteristics and safety requirements of a rail corridor	2.1	Explain the terms rail corridor, danger zone and positions of safety
		2.2	Identify entry and supervisory requirements before entering a rail corridor
		2.3	Identify approved personal protective equipment (PPE) to be worn before entering a rail corridor
		2.4	Identify clothing colours not to be worn in a rail corridor
3	Respond to key hazards and risks	3.1	Identify difference between a risk and a hazard
		3.2	Identify common risks and hazards in a rail network environment
		3.3	Identify process for reporting an unsafe or dangerous situation on the rail network
		3.4	Participate in basic hazard and risk assessment on a rail network
		3.5	Identify strategies to avoid or mitigate risks and hazards

Foundation Skills

Foundation Skills essential to successful completion of this unit are mapped to the Australian Core Skills Framework (ACSF) and the European Digital Competence Framework (DigComp 3.0). Further information is available in the TLI Training Package Foundation Skills Companion Volume.

Unit Mapping Information

Links

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Assessment Requirements for TLIF0035 Develop safety awareness for a rail environment

Performance Evidence

Evidence required to demonstrate competence in this unit must satisfy all of the requirements of the elements and performance criteria on at least one occasion.

Evidence must demonstrate the ability to:

- use appropriate rail safety terminology when communicating rail safety concepts
- identify workplace health and safety (WHS/OHS) requirements relevant to a rail environment
- identify personal fitness requirements for working safely in a rail environment, including recognising signs of fatigue and appropriate fatigue prevention strategies
- identify the characteristics and safety requirements of a rail corridor, including:
 - rail corridors
 - danger zones
 - positions of safety
 - entry requirements
 - approved personal protective equipment (PPE) and how it is worn
- identify common hazards and risks that may be encountered in a rail environment
- participate in a basic hazard and risk assessment for a simulated rail environment by:
 - identifying hazards
 - identifying associated risks
 - suggesting appropriate risk control measures
- identify workplace procedures for reporting hazards, unsafe conditions and dangerous situations
- communicate information using appropriate technology and devices.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- Rail Safety Knowledge
 - rail safety terminology and appropriate usage
 - key features of rail industry OHS/WHS legislation, regulations and rules including:

- rail Safety National Law (2012)
- national Standard for Health Assessment of Rail Safety
- book of Rules and Operating Procedures
- public Transport Corporation (PTC) Train Infrastructure Electrical Safety rules (High Voltage Rules 1997)
- traction Industry Electrical Safety Rules
- environmental, Health, and Safety Guidelines for Railways
- Personal fitness requirements such as:
 - unimpaired vision
 - unimpaired coordination
 - being alert (not drowsy)
 - being vigilant and attentive to job requirements
- Common Signs of Fatigue
 - tired or sore eyes (trouble keeping eyes open)
 - slow reactions
 - frequent yawning
 - unable to concentrate
 - not remembering last actions or work details
 - signs of being close to falling asleep
 - irritability
- Strategies to Prevent Fatigue
 - develop and maintain good sleep habits
 - eat regular, well-balanced meals
 - exercise regularly
 - maintain work/life balance
- Rail Corridor Knowledge
 - characteristics of a rail corridor including danger zones and positions of safety
- Safe Work Requirements Before Entering Rail Corridor
 - holding an approved Safely Access the Rail Corridor (SARC) qualification
 - being deemed medically fit
 - participating in a rail safety pre-work briefing
 - wearing correct PPE
 - zero alcohol and drugs
 - being fit for duty

- ensuring track protection is in place
- Common Hazards in a Rail Environment
 - asbestos
 - ballast
 - bridges and viaducts
 - concealed cables
 - crossing tracks
 - cuttings
 - electrical infrastructure
 - hazardous substances / dangerous goods
 - noise
 - plant, track machinery / vehicles
 - rail traffic
 - signalling equipment / points
 - underground services
 - uv exposure
 -
- Types of Risks
 - slips and falls
 - injuries from moving trains
 - assaults from passengers
 - handling dangerous goods

Assessment Conditions

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment include:

- a suitable learning environment (classroom with projector/screen)
- computer with internet
- rail industry OHS/WHs resources
- personal protective equipment (PPE)
- simulated rail hazard and risk environment

Unit Mapping Information

Links

Companion volumes, including implementation guides, are found on the national training register - <https://training.gov.au/training/details/TLI>.

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