Australian Government

TLIF0035 Develop safety awareness for a rail environment

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Release: 1

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. Completion of this unit does not provide competency to undertake any regulated, licensed, accredited, safety-critical or role-specific work activities in the rail industry.

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.

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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 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

For information regarding essential foundation skills and the unit relationship to the ACSF and DigComp (3.0), refer to the TLI Training Package Companion Volume Foundation Skills.

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Digital Skills (Ref to DigComp 3.0)

Basic: CS1.1.04: Use digital search tools to implement, refine and update basic information searches. **[AI-I]**

Basic: CS2.1.01: Identify and use basic features of digital communication tools to interact with individuals and groups. **[AI-I]**

Int: CS3.2.07: Modify or transform digital textual, numeric or visual representations to effectively and accurately convey the meaning of data and information

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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 correct rail safety terminology when communicating safety information
- identify WHS/OHS and rail safety legislation, regulations and rules relevant to a rail environment
- identify medical fitness requirements for working safely in a rail environment
- identify signs of fatigue and apply at least two fatigue prevention strategies to a work scenario
- explain the terms rail corridor, danger zone and position of safety
- identify entry and supervisory requirements before entering a rail corridor
- identify approved PPE, how it is worn, and clothing colours not to be worn in a rail corridor
- explain the difference between a hazard and a risk using rail examples
- identify common hazards and risks in a rail environment
- identify the workplace procedure for reporting hazards, unsafe conditions and dangerous situations
- Participate in a basic hazard and risk assessment in a simulated rail environment by:
  - identifying hazards
  - identifying associated risks
  - recommending controls using the hierarchy of control
- identify communication methods, technologies and devices and equipment which support a safe workplace.

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:

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- Rail safety terminology and its correct use
  - e.g. hazard, risk, rail corridor, danger zone, position of safety, track protection, rail traffic, safeworking
- WHS/OHS and rail safety legislation and rules:

  a. WHS Act and Regulations (OHS Act in Victoria)

  b. Rail Safety National Law and National Regulations (rail safety worker duties)

  c. National Standard for Health Assessment of Rail Safety Workers (current edition)

  d. Network rules and procedures of the relevant rail infrastructure manager (RIM)
- Medical fitness requirements such as:
  - Role-specific vision and hearing; coordination; alertness and attention to job requirements; alcohol and drug free
- Signs of fatigue such as:
  - difficulty keeping eyes open; frequent yawning; slow reactions; poor concentration; memory lapses; irritability; nodding off or micro-sleeps
- Fatigue prevention strategies such as:
  - good sleep habits; regular balanced meals; regular exercise; work/life balance
- Workplace procedures such as:
  - follow fatigue management procedures; take scheduled breaks; report fatigue to supervisor
- Rail corridor characteristics such as:
  - corridor boundaries, danger zone and positions of safety (as defined by the RIM), key infrastructure (track, signals, overhead wiring, level crossings)
- Entry and supervisory requirements such as:
  - Requirement to hold rail access competency and Rail Industry Worker (RIW) card (where required); be medically fit for duty, including zero alcohol and drugs; attend pre-work safety briefing; confirm track protection is in place; work under direction of a qualified Protection Officer/supervisor; follow sign-on/access authority process
- PPE and clothing:
  - approved high-visibility clothing, safety footwear and task-specific PPE (e.g. hard hat, eye/hearing protection, gloves) and how they are worn; clothing colours not permitted (e.g. red and green, which can be mistaken for signals; confirm against RIM rules)
- Definitions of hazard and risk and the difference between them
- Common rail hazards such as:
  - silica; ballast and uneven ground; bridges, viaducts and cuttings; buried cables and underground services; crossing tracks; electrical infrastructure incl. overhead wiring; hazardous substances and dangerous goods; noise; plant, track

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machinery and road-rail vehicles; rail traffic; signalling equipment and points; UV and weather exposure

- Common rail risks such as:
  - slips, trips and falls; being struck by rail traffic or plant; electric shock; exposure to hazardous substances; assault or aggression from the public; hearing damage; heat stress
- Reporting processes:
  - what to report, who to report to, how and when; stop-work and make-safe actions; incident/hazard reporting systems
- Basic hazard and risk assessment process (identify, assess, control, review) and hierarchy of control (eliminate, substitute, isolate, engineering, administrative, PPE)

Assessment 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

Previous Code and Title	Equivalence	Comments
	Newly created	This unit has been created to address a skill or task required by industry that is not covered by an existing unit of competency

Links

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

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