TLIPC0007 Identify elements of a rail network

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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 identify how rail networks are structured, operated and governed.

Rail networks include a range of distinct transport systems that differ in their primary purpose, infrastructure, rolling stock, operating environments and service characteristics.

This unit requires learners to identify the purpose and characteristics of different network types, the rolling stock, infrastructure and operational systems that support a network. It also includes the governance arrangements for rail networks and the roles of key persons and organisations responsible for the safe and effective management of rail services.

This unit applies to individuals who wish to prepare for entry level employment and/or further study in the rail transport industry. 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.

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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.

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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	**Identify key elements of a rail network**	1.1	Identify the purpose and characteristics of two distinct rail networks
		1.2	Identify the types of rolling stock used on each selected rail network
		1.3	Identify the infrastructure and operational systems that support the operation of the selected rail networks
		1.4	Describe the geographic coverage and key locations of the selected rail networks
		1.5	Identify the roles and responsibilities of persons supporting the operation of the selected rail networks
2	**Identify governance arrangements for rail networks**	2.1	Identify organisations responsible for the governance, regulation and operation of selected rail networks
		2.2	Identify accredited operators within a selected jurisdiction for each selected rail network and describe the primary functions
		2.3	Identify the legislation governing rail operations within a selected jurisdiction
		2.4	Distinguish the governance, infrastructure management and operational responsibilities within the selected networks
3	**Report on a selected rail network operation**	3.1	Plan a journey incorporating at least two travel segments on at least one rail network.
		3.2	Access and interpret journey information to select appropriate services
		3.3	Undertake journey and observe the operation of selected network/s.

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		3.4	Identify examples of rolling stock, infrastructure, operational systems and key rail persons encountered during the journey.
		3.5 3.6	Record observations about how the network supports safe and efficient passenger transport Report findings from the journey, including observations about the operation of network and opportunities for improvement

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 TLIPC0007 Identify elements of a rail network

Performance 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 on at least one occasion.

Evidence must demonstrate the ability to:

- Describe rail network types such as:
  - metropolitan passenger
  - intercity/regional
  - freight
  - heavy haul
  - mixed-use
  - light rail
  - heritage
- Describe the purpose and characteristics of two distinct networks
- Identify typical rolling stock used on selected network/s
- Identify key infrastructure and operational systems of selected networks
- Describe geographic coverage and key locations of each selected network such as:
  - major stations
  - interchanges
  - depots
  - control centres
- Identify key operational roles and responsibilities on selected network/s
- Identify organisations responsible for rail safety regulation, infrastructure management, transport operations and transport administration, and their functions
- Identify accredited operators for each selected network in a chosen jurisdiction and describe their primary functions
- Identify legislation and regulatory frameworks that apply in selected jurisdiction
- Describe the difference between governance, infrastructure management and operational responsibilities for selected networks
- Plan a journey of at least two travel segments on at least one network, using journey information (e.g. timetables, journey planners) to select services
- Undertake the planned journey or a rail site visit that includes rail travel, and observe how the network operates

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- Record observations of rolling stock, infrastructure, operational systems, rail personnel and passenger facilities, including how they support safe and efficient travel
- Report on findings in a written, oral and/or visual format, including areas for improvement using accurate rail terminology
- Use technologies to research, collate information and formulate report.

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 terminology and its use in rail contexts
- types of operational systems, including signalling, communications, train control and differing levels of automation used within rail networks.
- types of rolling stock used on selected rail networks
- types of rail infrastructure which facilitate the operation of the rail networks such as:
  - track (rail, sleepers, ballast, drainage, points and crossings)
  - stations, platforms, footbridges and tram stops
  - bridges, viaducts, tunnels and underground stations
  - level crossings (boom barriers/gates)
  - traction power (overhead wiring, portal or cantilever structures, substations, catenary-free power for light rail)
  - control centres
  - stabling, maintenance and depot sites
  - freight terminals and sidings
- types of operational systems such as:
  - signalling and train control
  - communications, including driver-to-control radio
  - ticketing and passenger information systems
  - levels of automation
- geographic coverage and selected locations of rail networks in the state/territory
- common rail industry roles and their responsibilities such as:
  - network/train controllers
  - signallers
  - train and tram drivers
  - guards

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    - track and structures maintainers
    - overhead wiring and high voltage technicians
    - signalling technicians
    - rolling stock maintainers
    - rail safety and electrical systems engineers
    - station and customer service staff
    - authorised officers
    - cleaners
- Governance and regulation:
    - Office of the National Rail Safety Regulator (ONRSR), state/territory transport departments and authorities, rail infrastructure managers (RIMs), rolling stock operators (RSOs)
    - Accreditation under the Rail Safety National Law (RSNL), and the accredited operators in the state/territory and their primary functions
    - Legislation governing rail: RNSL and Regulations; state/territory transport legislation
- Differences between governance, infrastructure management and operational responsibilities
- Journey planning information: timetables, journey planner apps, routes and service types, fares and ticketing, connections, accessibility information, service disruptions
- Journey observation points
    - timetable readability
    - ticket access
    - route used; connections
    - boarding and alighting
    - rolling stock type
    - significant infrastructure
    - staff encountered
    - punctuality
    - cleanliness
    - staff helpfulness
    - crowding and passenger behaviour
    - safety features (signage, announcements, CCTV, help points)

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Assessment Conditions

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

Resources for assessment include:

- a range of relevant exercises, reports and/or simulations
- suitable classroom or simulated work environment
- relevant and appropriate materials, tools, equipment, personal protective equipment (PPE) currently used in industry
- applicable documentation which may include rail/transport legislation, regulations, codes of practice, workplace procedures and operation manuals.
- access to passenger rail network/s (for rail journey)

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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