



Australian Government

TLIPC0009 Identify the functional areas of rail operations

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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 the key functional areas that support the daily operation of a rail network.

It includes identifying the function, main activities and key persons involved in network control, timetabling and rostering, service delivery, and operations planning. It also covers the security responsibilities of rail operators and reporting on findings using appropriate rail industry terminology.

The unit applies to individuals preparing for entry-level employment or further education and training in the rail industry. 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

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

1	Identify rail network control locations and functions	1.1	Identify locations of metropolitan and regional network control centres and their sphere of control in a selected state/territory
		1.2	Investigate and document role of a control centre to facilitate the day-to-day operation of a selected rail network
		1.3	Identify technologies used by a centre to monitor and control rail stock movements throughout a network
		1.4	Record the sequence of actions by a control centre to manage a rail incident
		1.5	Describe roles and responsibilities of key persons employed in a network control centre
2	Identify the timetabling and rostering function	2.1	Identify the purpose of rail timetables and staff rosters
		2.2	Outline key factors considered when preparing a rail timetable, including service requirements and availability of infrastructure, rolling stock and staff
		2.3	Identify how staff rosters support the delivery of scheduled rail services
		2.4	Identify how timetable information and service changes are communicated to staff and passengers
		2.5	Identify the roles of key persons involved in timetabling and rostering
3	Identify the service delivery function	3.1	Identify the purpose of service delivery within a rail network
		3.2	Outline the main activities involved in delivering daily passenger or freight services
		3.3	Describe how stations, depots, stabling yards or other facilities support service delivery
		3.4	Identify the roles and responsibilities of key service delivery persons

		3.5	Outline daily responsibilities for protecting passengers, staff, freight and rail operations from security risks
4	Identify the operations planning function	4.1	Identify the purpose of operations planning within a rail network.
		4.2	Outline typical activities undertaken to plan daily rail services and operational changes
		4.3	Investigate factors considered when planning services, including customer needs, network capacity, available resources and planned infrastructure work
		4.4	Identify the roles of key persons involved in operations planning
		4.5	Describe how operations planning supports the safe and efficient delivery of rail services
5	Identify the security responsibilities of a rail operator	5.1	Identify responsibilities of an operator to protect passengers and staff on a selected network
		5.2	Identify potential security risks and vulnerabilities on a selected network
		5.3	Identify potential actions to respond to security risks including methods of reporting
6	Report on the functional areas of a rail network operation	6.1	Collate information and prepare draft report
		6.2	Review draft report to identify areas requiring further information or improvement
		6.3	Amend draft report and finalise for submission

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.

Assessment Requirements for TLIPC0009 Identify the functional areas of rail operations

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:

- investigate the functions of the major operational areas within a selected rail or light rail network, including:
 - network control
 - timetabling and staff rostering
 - service delivery
 - operations planning and service development
- identify the purpose and key activities of each operational area
- describe how the operational areas work together to support the safe and efficient operation of the rail network
- identify the roles and responsibilities of at least two (2) occupations across each of the major operational areas
- identify the technologies, systems and resources used to support operational activities within the selected network
- identify the rail operator's responsibilities for managing security risks and vulnerabilities affecting passengers, staff and rail operations
- research, organise and document information using appropriate sources and technologies
- prepare a report that:
 - presents information using appropriate rail industry terminology
 - accurately describes the functional areas of rail operations
 - identifies relationships between operational areas
 - incorporates feedback or self-review before final submission.

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:

- day to day activities of the four rail operational areas:
 - network control centres

- timetabling and rostering
- train/tram service delivery
- planning and development

- roles and responsibilities of key staff in each operational area
- factors to consider when monitoring and updating timetabling information for passengers
- types of potential and real security risks and vulnerabilities on a rail network such as:
 - unattended suitcases or packages
 - suspicious passenger activity and loitering
 - penetration (hacking) of network control systems e.g. signalling, train/tram control/monitoring to cause interference/shutdown
 - unauthorised interference to rail infrastructure e.g. electrical power supply, track/track signalling

- role and responsibilities of rail operators to protect passengers and staff from potential security incidents and vulnerabilities
- typical components of a report template
- purpose and benefits of a document/report review process
- types of document review processes such as peer review, self-review, trainer review, spell/grammar check
- basic online research techniques including use of various technologies and software

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 task being performed and the needs of the candidate.

Resources for assessment include:

- suitable learning environment such as a classroom equipped with data projector and screen
- computer hardware/software with access to the internet
- personal protective equipment (PPE) for on-site visits
- relevant template to document report information

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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