



Australian Government

TLIC3033 Drive an electric tram to operational requirements

Release: 2

TLIC3033 Drive an electric tram to operational requirements

Modification History

Release 2. This is the second release of this unit of competency in the TLI Transport and Logistics Training Package:

- Minor terminology changes in Performance Criteria
- Minor statement changes in Performance Evidence
- Minor statement changes in Knowledge Evidence
- Minor statement changes in Assessment Conditions.

Release 1. This is the first release of this unit of competency in the TLI Transport and Logistics Training Package.

Application

This unit involves the skills and knowledge required to drive an electric tram to operational requirements in accordance with relevant regulations and workplace practices.

It includes operating a tram efficiently and effectively, driving a tram, completing a journey and responding effectively to external factors and emergencies.

People achieving competence in this unit will need to fulfil the applicable state/territory legislated rail safety requirements and to comply with relevant codes of practice and/or guidelines, as well as relevant Australian Road Rules and applicable state/territory tramway regulatory requirements.

Work is performed under minimal supervision, generally within a team environment. It involves the application of routine operational principles and procedures when driving an electric tram as part of workplace activities across a variety of operational contexts.

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

Pre-requisite Unit

Not applicable.

Competency Field

C – Vehicle Operation.

Unit Sector

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 Operate tram efficiently and effectively

- | | |
|-----|--|
| 1.1 | Electric tram is operated in accordance with relevant codes of practice, workplace procedures and instructions |
| 1.2 | Electric tram is operated safely in accordance with traffic regulations |
| 1.3 | Electric tram is operated with due care of the vehicle |
| 1.4 | Movements are made within limits of vehicle and road dimensions, in accordance with specifications |
| 1.5 | Smooth and controlled movements are made |
| 1.6 | Electric tram performance is monitored to maintain optimum running condition and to identify faults, defects and efficiencies in accordance with tram network and workplace requirements |

2 Drive tram

- | | |
|-----|--|
| 2.1 | Traffic flows are anticipated and appropriate defensive actions taken to maintain the efficiency of tram operation |
| 2.2 | Electric tram is constantly monitored for malfunctions or factors that may affect tram performance |

3 Complete tram journey

- | | |
|-----|---|
| 3.1 | Tram documentation is received, interpreted and followed |
| 3.2 | Electric tram is operated and manoeuvred in accordance with tram documentation and workplace procedures |
| 3.3 | Events and circumstances affecting planned running schedule are communicated to relevant personnel en |

		route
	3.4	Tram control and other instructions are received, interpreted and applied to ensure safe and effective control of the tram
	3.5	Communications are maintained with tram controllers during tram journey in accordance with relevant workplace procedures and requirements
	3.6	Instructions concerning tram operation are given to relevant personnel to ensure safe and efficient running
4 Respond effectively to external operating factors	4.1	Instructions are verified, as required, interpreted and followed, in accordance with relevant regulatory requirements and workplace policies and procedures, to ensure that actions taken are appropriate and safe
	4.2	Fixed traffic and hand signals, and verbal movement commands are interpreted and followed, in accordance with regulatory requirements and workplace policies and procedures, to ensure actions taken are appropriate and safe
	4.3	Hazardous situations are recognised and appropriate actions taken to minimise risk to personnel and equipment

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Unit Mapping Information

This unit replaces and is equivalent to TLIC3033A Drive an electric tram to operational

requirements.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>

Assessment Requirements for TLIC3033 Drive an electric tram to operational requirements

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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 and include:

- adapting to differences in electric trams, associated trams and ancillary equipment
- applying track and road knowledge
- communicating effectively and working collaboratively with others
- completing relevant documentation
- driving defensively, applying precautions and required actions to minimise, control or eliminate hazards that may exist when driving an electric tram in accordance with operational conditions and requirements
- identifying and assessing tram defects and deficiencies and taking appropriate actions to report, isolate, repair or replace identified defective equipment in accordance with workplace procedures
- identifying job hazards and taking required actions to minimise, control or eliminate identified hazards
- interpreting and following operational instructions and prioritising work
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring journey schedule
- operating an electric tram and monitoring its performance to facilitate optimum safe operation
- operating electronic communications equipment to required protocol
- reading and interpreting relevant instructions, procedures, information and signs
- recognising problems that may arise when driving an electric tram and taking appropriate actions.

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:

- applicable state/territory legislated rail safety requirements, relevant codes of practice and/or guidelines
- defensive driving principles
- electric tram controls, instruments and indicators and their purpose, location and use including controls to start, accelerate, decelerate and stop a tram
- electric tram monitoring devices, braking and drive equipment, ancillary systems and signalling systems
- electric tram operating characteristics, capabilities and limitations
- relevant work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- state/territory road and traffic authority road rules
- track, road and route knowledge
- tram speed limits
- typical defects that can occur on an electric tram and related actions that should be taken
- workplace procedures for:
 - adjusting controls to maximise efficient and safe running
 - braking and safety system procedures
 - driver identification procedures, licences and authorities required to drive an electric tram
 - emergency response procedures
 - identifying equipment defects and assessing for appropriate actions
 - managing safety incidents and hazardous situations
 - operating and monitoring an electric tram
 - state/territory road and traffic authority and tramway operating procedures.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Practical assessment must occur in an appropriate range of situations in the workplace.

A simulator assessment is not suitable for the final assessment of this unit of competency

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 must include access to:

- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE)

currently used in industry

- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals.

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