



Australian Government

TLIB2104 Identify, diagnose and rectify faults on electric passenger trains

Release: 3

TLIB2104 Identify, diagnose and rectify faults on electric passenger trains

Modification History

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

- PC 3.2 outcome amalgamated to PC 3.1
- 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 identify, diagnose and rectify faults on electric passenger trains in accordance with safeworking and regulatory requirements, and workplace procedures.

It includes identifying maintenance and/or repair requirements, conducting minor maintenance and routine repairs, and checking and reporting minor repairs and/or maintenance in accordance with workplace procedures.

Work is generally performed without supervision and within a team environment. It involves the application of routine fault identification, diagnosis and rectification procedures when maintaining the safety and operation of equipment on electric passenger trains operating within Australian rail systems.

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

Pre-requisite Unit

Not applicable.

Competency Field

B – Equipment Checking and Maintenance

Unit Sector

Rail sector.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Diagnose faults

2 Carry out fault rectification, repair or replacement

3 Check and report rectification, repair or replacement

PERFORMANCE CRITERIA

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

- 1.1 Electric passenger train and equipment are monitored for potential faults
- 1.2 Hazards are identified, risks are assessed and risk control measures are implemented
- 1.3 Faulty or damaged components or equipment are identified and assessed
- 1.4 Equipment and/or tools required to rectify faults are identified and obtained
- 1.5 Work area and equipment are prepared and made safe to repair faults or to replace components
- 2.1 Rectification, repair or component exchange are carried out in accordance with workplace procedures
- 2.2 Required equipment, tools and materials are operated, applied and handled to conform to work health and safety (WHS)/occupational health and safety (OHS) requirements and manufacturer specifications to prevent injury and damage
- 2.3 Activities are carried out in accordance with WHS/OHS and workplace procedures
- 3.1 Rectification, repair or component exchange activities are checked for compliance with safety requirements and workplace procedures and has been restored to operational standards
- 3.2 Rectification, repair, component exchange activities are reported and accurately documented in appropriate records or logbooks

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.

Non-essential conditions can be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLIB2104A Identify, diagnose and rectify faults on electric passenger trains.

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 TLIB2104 Identify, diagnose and rectify faults on electric passenger trains

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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:

- completing relevant documentation
- explaining and following procedures for reporting faults and inoperable equipment
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- identifying typical faults that may occur on electric passenger trains
- implementing contingency plans
- interpreting and following operational instructions and prioritising work
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring equipment performance
- monitoring work activities in terms of planned schedule
- operating and adapting to differences in equipment in accordance with operating procedures
- reading and interpreting relevant instructions, procedures, information and signs
- rectifying a range of faults correctly on an electric passenger train
- reporting and/or rectifying problems, faults or malfunctions promptly, in accordance with regulatory requirements and workplace procedures
- working systematically with required attention to detail without injury to self or others, or damage to equipment.

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:

- emergency procedures
- relevant rail danger zones

- relevant sections of applicable state/territory legislated rail safety requirements, codes of practice and/or guidelines, and safeworking system requirements
- relevant work health and safety (WHS)/occupational health and safety (OHS) and environmental protection requirements
- tools and equipment used when identifying, diagnosing and rectifying faults, and the procedures and precautions for their care, use and storage
- typical repair problems that can occur and related action that should be taken
- workplace documentation and records requirements
- workplace procedures and policies for diagnosing and repairing faults.

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.

Assessment must occur in workplace operational situations or, where this is not available, in simulated workplace operational situations that replicate rail 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 must include access to:

- a range of relevant exercises, case studies and/or simulations
- 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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