



Australian Government

TLIB2130A Diagnose and rectify minor faults on on-track vehicles

Release 1

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Modification History

Release 1 - New unit of competency

Unit Descriptor

This unit involves the skills and knowledge required to diagnose and rectify minor faults on on-track vehicles in accordance with organisational requirements.

Licensing, legislative, regulatory or certification requirements are not applicable to this unit.

Application of the Unit

Work involves the application of routine minor fault diagnosis and rectification procedures to maintain the safety and operation of on-track vehicles. This unit only covers minor repairs as defined by organisational policies.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

1 Identify repair and maintenance requirements

- 1.1 Faulty or damaged components or equipment are identified and assessed for component exchange or minor repair
- 1.2 Identified faulty or damaged components outside own scope, as determined by organisational policies, are reported in accordance with organisational procedures
- 1.3 Where repair/maintenance/component exchange is appropriate, equipment and tools required are identified and obtained
- 1.4 Work areas and equipment are prepared and made safe for repair/maintenance/component exchange activities

2 Conduct repairs and minor maintenance

- 2.1 Routine repair/maintenance/component exchange is carried out in accordance with manufacturer specifications and organisational procedures
- 2.2 Equipment, tools and materials are operated, applied and handled in conformance to occupational health and safety (OH&S) requirements and manufacturer specifications to prevent injury and damage

3 Check and report minor repairs and/or maintenance

- 3.1 Minor repair/maintenance/component exchange activities are checked for compliance with manufacturer specifications and workplace procedures
- 3.2 Equipment is checked to confirm it has been restored to operational standards
- 3.3 Worksite is checked for cleanliness and operational safety, and appropriate action is taken to restore site and equipment
- 3.4 Repair/maintenance/component exchange activities are documented in accordance with organisational requirements

Required Skills and Knowledge

This section describes the knowledge and skills required for this unit.

Required knowledge:

- Hazards that may exist when diagnosing and rectifying minor faults with on-track vehicle/s and ways of controlling the risks involved
- Organisational procedures for diagnosing and rectifying minor faults with on-track vehicle/s
- Problems that may occur when diagnosing and rectifying minor faults with on-track vehicle/s and action that can be taken to report or resolve the problems
- Relevant rail safety, OH&S and environmental procedures and regulations
- Tools and equipment used when diagnosing and rectifying minor faults and the procedures and precautions for their care, use and storage
- Workplace documentation and records requirements

Required skills:

- Adapt to differences in track vehicles and associated equipment and procedures
- Communicate effectively with others
- Modify activities depending on operational contingencies, risk situations and environments
- Read and interpret instructions, procedures, information and signs relevant to diagnosing and rectifying minor faults with on-track vehicle/s
- Select and use required personal protective equipment conforming to industry and OH&S standards
- Work collaboratively with others

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and skills, the range statement and the assessment guidelines for this Training Package.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

- The evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria of this unit and include demonstration of applying:
 - the required knowledge and skills
 - relevant legislation and workplace procedures
 - other relevant aspects of the range statement
- Assessment must include exercises which demonstrate competent performance of the following in a range of situations:
 - identifying equipment checks required for a range of on-track vehicles in the workplace
 - identifying typical faults or defects that may occur on on-track vehicles
 - carrying out minor repairs, maintenance and component exchange on different on-track vehicles
 - following correct workplace requirements for reporting identified defects
- Assessment must include exercises which demonstrate competent performance of the following in a range of situations:
 - demonstrating correct procedure for identifying minor faults
 - correctly changing out faulty component
 - reporting minor faults and complete organisational documentation

Context of and specific resources for assessment

- Performance is demonstrated consistently over a period of time and in a suitable range of contexts
- Resources for assessment include:
 - a range of relevant exercises, case studies and/or other simulated practical and knowledge assessment, and/or
 - access to an appropriate range of relevant operational situations in the workplace
- In both real and simulated environments, access is required to:
 - relevant and appropriate materials and equipment, and
 - applicable documentation including organisational procedures, regulations, codes of practice and operation

manuals

Method of assessment

- As a minimum, assessment of knowledge must be conducted through appropriate written/oral tests
- Practical assessment must occur:
 - through activities in an appropriately simulated environment, and/or
 - in an appropriate range of situations in the workplace

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance.

Minor repair/maintenance/
component exchange may
include:

- minor component change out
- diagnosing minor faults
- identifying correct lubricants
- identifying correct fuel and carrying out refuelling
- identifying correct solvents and cleaning fluids
- maintaining fluid and air pressures
- replacing faulty/damaged/worn equipment
- servicing and cleaning batteries

On-track vehicles may include:

- rail crane
- spot tamper
- ballast regulator
- inserter/remover (TR10)
- track recorder
- tamper
- dynamic stabiliser
- rail grinder
- ballast cleaner
- track layer
- tie inserter
- scarifier
- tie cranes
- track jack

Safety equipment may include:

- high visibility clothing
- gloves
- safety headwear
- respiratory protection
- safety footwear
- safety glasses
- hearing protection
- safety devices

Unit Sector(s)

Not applicable.

Competency Field

B – Equipment Checking and Maintenance