



Australian Government

**TLIB2122A Apply awareness of
fundamentals of rail operations in yards or
sidings**

Release 1

TLIB2122A Apply awareness of fundamentals of rail operations in yards or sidings

Modification History

Release 1 - New unit of competency

Unit Descriptor

This unit involves applying an awareness of the fundamentals of rail operations in yards or sidings.

It includes fixed structures, rail vehicles and rolling stock, signals, safety devices, primary activities and safety systems.

Licensing or certification requirements are not applicable to this unit.

Application of the Unit

This unit is intended as an introduction to rail yards or sidings for people entering the rail industry who will be working on or around them.

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 basic yard/siding structures, layout and terminology | <ul style="list-style-type: none">1.1 Basic terminology for track, trackside equipment and fixed structures is identified1.2 Features of track, including geography and geometry are identified1.3 Infrastructure categories and their purpose are identified1.4 Other principal structure types and their purpose are identified1.5 Relevant stakeholders for reporting structural faults or anomalies to are identified |
| 2 Identify above and below ground services | <ul style="list-style-type: none">2.1 Principal overhead and/or electrical components and their purpose are identified and explained2.2 Power supply voltages are identified2.3 Methods of isolation are identified and their purpose is explained |
| 3 Identify rail track vehicles and rolling stock | <ul style="list-style-type: none">3.1 Types of trains and rolling stock are identified3.2 Types of rail track vehicles are identified3.3 Relevant stakeholders for reporting rolling stock faults or anomalies to are identified |
| 4 Identify signals and safety devices | <ul style="list-style-type: none">4.1 Types, location and purpose of signals are identified4.2 Types, location and purpose of safety devices are identified4.3 Relevant stakeholders for reporting signal or safety device faults or anomalies to are identified |
| 5 Identify primary rail activities and safety systems | <ul style="list-style-type: none">5.1 Primary rail activities and, where applicable, other operators are identified5.2 Types and purpose of safety systems are identified5.3 Relevant stakeholders for reporting safety events to are identified |

Required Skills and Knowledge

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

Required knowledge:

- Relevant communication systems and procedures

Required skills:

- Communicate effectively with others
- Interpret and follow operational instructions

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 layout, main features and equipment in a rail yard or siding
 - identifying all activities carried out in the rail yard or siding
 - identifying possible safety events and appropriate responses

Context of and specific resources for assessment

- Resources for assessment may include:
 - a range of relevant exercises, case studies and/or other 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
 - applicable documentation including workplace 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
- Assessment may 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.

- Track components may include:
- rails, rail fastenings and welds
 - sleepers and sleeper fastenings
 - ballast
 - formation and earthworks
 - drainage pits
 - cess
- Track layout may include:
- plain track
 - gauge
 - turnouts
 - special track including catchpoints/derails, expansion switches, diamond crossings and slips
- Yard layouts may include
- road identification
 - walkways
 - road crossings
 - mainline/network connections
 - orientation
 - through roads
- Overhead and/or electrical components may include:
- catenary
 - stanchions
 - drop wire
 - contact
 - steady arm
 - feeder
 - spark gaps
 - earth straps
 - tension weights
 - pantographs
 - high voltage cables
 - power supplies
 - isolation points
- Rail track vehicles may include:
- road/rail vehicles
 - maintenance vehicles
 - track machines
 - trolleys
 - elevated platforms
 - cherry pickers
- Safety events may include:
- incidents
 - accidents

- near misses

Unit Sector(s)

Not applicable.

Competency Field

B – Equipment Checking and Maintenance