



Australian Government

TLIB3027 Set up and shut down on-train remote control system

Release: 2

TLIB3027 Set up and shut down on-train remote control system

Modification History

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

- Minor statement changes in unit Application
- 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 set up and shut down an on-train remote control system in accordance with workplace procedures and the requirements of relevant system of safeworking, regulations and codes of practice.

It includes setting up the remote control system, setting up the lead control system, and shutting down the remote control equipment.

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.

Work is performed without supervision, generally within a team environment. It involves the application of routine operational principles and procedures when setting up and shutting down an on-train remote control system, as part of workplace activities across a variety of operational contexts within the Australian rail system.

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.

PERFORMANCE CRITERIA

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

1 Set up remote control system

1.1 Remote control system components are set up in accordance with operational plans and manufacturer instructions

1.2 Remote motive power units are placed in required operating mode

1.3 Communications code is entered, and air and electrical systems are activated

1.4 Brake and traction systems are tested using approved personnel to ensure correct operation

2 Set up lead control system

2.1 Cab console is checked, electrical systems are activated, and system self-test is confirmed

2.2 Communications code is entered and confirmation is obtained that system has entered link mode

2.3 Full control is obtained and brake tests are conducted using lead control equipment to ensure correct braking is operational

2.4 Procedures to establish total control are repeated, as required

2.5 Train is moved using the full range of tests to ensure operational safety and control

3 Shut down remote control equipment

3.1 Shut-down procedures of lead and remote control equipment are followed to ensure train security and system de-activation

3.2 Equipment indicators or functions are operated to ensure shut-down process is correct and complete

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 TLI Transport and Logistics Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLIB3027A Set up and shut down on-train remote control system.

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 TLIB3027 Set up and shut down on-train remote control system

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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:

- conducting post set-up tests to ensure remote control system is operating in accordance with workplace procedures
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- interpreting and following operational instructions and prioritising work
- monitoring performance of equipment
- operating and adapting to differences in equipment in accordance with operating procedures
- reading and interpreting relevant instructions, procedures, information and signs
- reporting and/or rectifying identified problems, faults or malfunctions promptly in accordance with workplace procedures
- setting up remote control system in a range of configurations and/or trains
- shutting down remote control system in accordance with workplace procedures
- working systematically with required attention to detail without injury to self or others, or damage to goods or 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:

- applicable state/territory legislated rail safety requirements, workplace procedures, relevant codes of practice and/or guidelines including:
 - work health and safety (WHS)/occupational health and safety (OHS), and environmental procedures and regulations

- controls, instruments and indicators of an on-train remote control unit and their purpose, location and use
- rail danger zones
- workplace procedures for:
 - braking and safety systems
 - controlling motive power units
 - identifying and assessing equipment defects in remote control units and taking appropriate actions
 - managing hazardous situations involving on-train remote control systems
 - operating remote control units
 - set-up and shut-down on-train remote control system.

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 where it is appropriate to do so; where this is not appropriate, assessment must occur 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 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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