



Australian Government

TLIB4082 Set up motive power units in multi-coupled consist

Release: 2

TLIB4082 Set up motive power units in multi-coupled consist

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 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 one or more motive power units in multi-coupled consist in accordance with network owner and rail network standards, rules, codes of practice and guidelines.

It includes preparing, setting up and conducting post start-up checks of motive power units in power or when being hauled dead or offline for multi-consist operation.

These operations are conducted as part of operating motive power units and may be carried out as part of a team of people working within rail operations.

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

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to

essential outcomes.

demonstrate achievement of the element.

1 Prepare motive power units for coupling

1.1 Identification and location of motive power units to be coupled is confirmed

1.2 Hazards are identified, risks are assessed and risk control measures are implemented

1.3 Motive power units are marshalled into desired position and orientation to meet consist requirements in accordance with organisational policies and procedures

2 Set up motive power units for multi-consist operation

2.1 Motive power units are coupled in accordance with manufacturer instructions and/or organisational procedures

2.2 Relevant hose pipes and electrical connections are made in accordance with manufacturer instructions and/or organisational procedures

2.3 Fuel lines are coupled, as required, in accordance with manufacturer instructions and/or organisational procedures

2.4 Area is checked before pantographs are raised or lowered to ensure safety in accordance with organisational procedures, as required

3 Set up in-cab controls for multi-consist operation

3.1 Motive power unit controls are set up for multi-consist operation in accordance with manufacturer and/or organisational policies and procedures

3.2 Vigilance and safety controls are set up as required, to ensure they are functioning correctly in multi-consist operation

3.3 Motive power unit equipment is set up or adjusted for multi-consist operation in accordance with manufacturer and/or organisational policies and procedures

4 Perform post start-up checks

4.1 Post start-up checks are carried out to ensure all motive power units are braking and powering effectively and are safe to move in accordance with manufacturer and/or organisational policies and procedures

4.2 Handbrakes on all motive power units are applied/released in accordance with manufacturer and/or organisational policies and procedures

4.3 Pantographs are raised or lowered in accordance with manufacturer and organisational procedures, as required

5 Haul dead motive

5.1 Motive power unit controls are set up for being hauled dead

power units

in motive power unit consist or in-train in accordance with manufacturer and/or organisational policies and procedures

- 5.2 Vigilance and safety controls are set up, as required, to ensure they are functioning correctly when being hauled dead in motive power unit consist or in-train
- 5.3 Motive power unit equipment is set up or adjusted for being hauled dead in motive power unit consist or in-train in accordance with manufacturer and/or organisational policies and procedures
- 5.4 Handbrakes are applied and released in accordance with manufacturer and/or organisational policies and procedures

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 TLIB4082A Set up motive power units in multi-coupled consist.

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 TLIB4082 Set up motive power units in multi-coupled consist

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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 motive power units and associated equipment and procedures
- identifying job hazards and taking required actions to minimise, control or eliminate identified hazards
- identifying where systems isolation is required
- implementing isolation where systems isolation is required
- modifying activities depending on operational contingencies, risk situations and environments
- reading and interpreting relevant instructions, procedures, information and signs
- setting up in-cab controls for multi-consist operations
- setting up motive power units for multi-consist operations
- working collaboratively with others inspecting and preparing a motive power unit.

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:

- auxiliary systems on a motive power unit and related checks for correct operation
- braking and safety system procedures for motive power units
- capabilities, compatibilities and types of motive power units
- defects that can occur on motive power units and related actions that should be taken
- electrical awareness
- external features of motive power units that must be checked during a visual inspection
- functions of all supervisory indicators and controls, and related checks for correct operation
- inspection procedures for motive power units

- isolation systems
- purpose and location of controls, monitoring devices, braking, power source and traction systems
- relevant legislated rail safety requirements, codes of practice and/or guidelines
- relevant rail danger zones
- relevant work health and safety (WHS)/occupational health and safety (OHS) legislation, regulations, codes, policies and workplace 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.

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 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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