



Australian Government

TLIC4073 Set up, operate and shut down a distributed power system

Release: 2

TLIC4073 Set up, operate and shut down a distributed power system

Modification History

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

- Minor terminology changes in Performance Criteria
- Minor statement changes in Performance Evidence
- 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, operate and shut down a distributed power system in accordance with workplace procedures, relevant codes of practice and rail network standards.

It includes setting up a remote control system; setting up a lead control system; and operating, monitoring and shutting down a distributed power system.

Distributed power refers to the physical distribution, at intermediate points throughout the length of a train, of separate motive power units. Such motive power units may be single units or multiple consists, remotely-controlled from the lead locomotive.

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

Pre-requisite Unit

Not applicable.

Competency Field

C – Vehicle Operation.

Unit Sector

Rail sector.

Elements and Performance Criteria

Elements describe the essential outcomes.

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

1 Prepare train for set up of distributed power system

- 1.1** Distributed motive power units are positioned as required in train consist
- 1.2** Hazards are identified, risks are assessed and risk control measures are implemented
- 1.3** Train sections are marshalled to form one train as required

2 Set up remote distributed motive power units

- 2.1** Distributed power is set up on all remote units
- 2.2** Distributed power system is tested in accordance with manufacturer instructions and/or workplace policies and procedures ready for linking with lead control unit
- 2.3** Start-up procedures for remote distributed motive power units are followed in accordance with manufacturer instructions and/or workplace policies and procedures

3 Set up lead distributed motive power units

- 3.1** Distributed power system is set up by conditioning/activation of required systems
- 3.2** Distributed power system is tested in accordance with manufacturer instructions and/or workplace policies and procedures
- 3.3** Start-up procedures for lead distributed motive power unit are followed in accordance with manufacturer instructions and/or workplace policies and procedures
- 3.4** Full control of distributed motive power units is established after linking process has been completed and required function tests have been conducted

4 Operate and monitor distributed power train

- 4.1** Distributed power system is operated and monitored during train operation to ensure safe train handling and control in accordance with operational requirements
- 4.2** Operational difficulties/faults are identified and rectified ensuring operational safety and efficiency
- 4.3** Shut down procedures for distributed motive power units are followed in accordance with manufacturer instructions and/or workplace policies and procedures

5 Shut down distributed

- 5.1** Distributed power train is secured against movement, as

power systems

required, prior to system shut down

- 5.2 Shut down procedures for distributed motive power system are followed in accordance with manufacturer instructions and/or workplace 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 TLIC4073A Set up, operate and shut down a distributed power system.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>