



Australian Government

TLIB3002 Test equipment and isolate faults

Release: 2

TLIB3002 Test equipment and isolate faults

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 Performance Evidence
- Minor statement changes 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 test equipment and to isolate faults in accordance with relevant codes of practice, regulations and workplace requirements within the transport and logistics industry.

It includes scoping and planning operational checks, checking equipment through its full operating range, and isolating faults and/or formulating recommendations for adjustment, repair or replacement.

Work is performed under some supervision, generally within a team environment.

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

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| 1 Scope operational checks | 1.1 | Physical condition of equipment is observed |
| | 1.2 | Test procedures and parameters are identified in accordance with workplace procedures and manufacturer specifications |
| | 1.3 | Preliminary observations are recorded |
| | 1.4 | Test procedures are confirmed with appropriate staff, as required, and necessary permission is obtained |
| 2 Plan operational checks | 2.1 | Specifications and notes from preliminary observations are checked and clarified, as required |
| | 2.2 | Sequence of tests are planned noting where results and observations should be recorded |
| | 2.3 | Hazards are identified, risks are assessed and control measures are implemented |
| | 2.4 | Safe area for testing is identified |
| | 2.5 | Arrangements are made to obtain additional resources and staff, as required |
| 3 Check equipment through its full operating range | 3.1 | Tests are undertaken in accordance with relevant safety and operational requirements |
| | 3.2 | Results are recorded and findings are confirmed |
| 4 Isolate fault and/or formulate recommendations | 4.1 | Proposals for equipment repair are recorded based on faults found, cost/time implications and workplace approval systems |
| | 4.2 | Report is explained to relevant workplace personnel including options and recommendations |
| | 4.3 | Parts are procured and/or repairs are undertaken in accordance with enterprise 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.

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 TLIB3002A Test equipment and isolate faults.

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 TLIB3002 Test equipment and isolate faults

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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 equipment in accordance with operating procedures
- applying precautions and required actions to minimise, control or eliminate identified hazards, including:
 - modifying activities depending on operational contingencies, risk situations and environments
 - reporting and/or rectifying identified problems, faults or malfunctions promptly in accordance with regulatory requirements and workplace procedures
- applying relevant legislation and workplace procedures
- communicating and working effectively with others
- completing relevant documentation
- monitoring and prioritising work activities in terms of planned schedule
- reading, interpreting and following relevant instructions, procedures, information and signs
- selecting and using relevant meters, gauges, equipment and tools when testing equipment and isolating faults
- 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:

- characteristics, capabilities and limitations of equipment concerned
- documentation and recording requirements
- fault-finding techniques, including identification of cost/time-effective rectification procedures
- faults that may occur with equipment, and appropriate actions that can be taken to report and/or rectify identified equipment or component faults
- guidelines relating to the safe use of machinery and equipment, including tagging unserviceable or damaged items
- housekeeping standards and procedures
- operational safety requirements for equipment concerned
- operational work systems, equipment, management and site operating systems for testing equipment and isolating faults
- relevant sections of regulatory requirements applicable to testing equipment and isolating faults
- site layout and obstacles
- tools, meters, gauges and equipment used when testing equipment and isolating faults and the precautions and procedures that should be followed in their use
- workplace procedures and policies for testing equipment and isolating faults, including tagging and reporting faulty equipment and components.

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 manufacturers specifications, workplace procedures, regulations, codes of practice and operation manuals.

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