

Australian Government

TLIB4071 Install and maintain pole mounted switches and transformers

Release: 2

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Modification History

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

- Minor statement change 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 install and maintain pole mounted switches and transformers in accordance with safeworking and regulatory requirements, and workplace procedures.

It includes planning installation and maintenance, preparing worksite, installing switches and transformers in accordance with workplace specifications, maintaining switches and transformers, and completing work.

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, rail industry standards and/or guidelines.

People working on energised overhead or underground systems or electrical equipment must have undertaken training and, where appropriate, hold the relevant licence, permit or certificate and be recognised as competent to carry out the work involved.

Work is performed under minimal supervision, generally within a team environment. It involves the application of routine operational principles and procedures when installing and maintaining pole mounted switches and transformers, as part of workplace activities across a variety of operational contexts within the Australian rail system.

Pre-requisite Unit

Not applicable.

Competency Field

B-Equipment Checking and Maintenance

Unit Sector

Rail sector.

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA	
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.	
1 Plan installation and maintenance	1.1	Works order is analysed and confirmed as required by site inspection
	1.2	Resources required for the job are identified and scheduled in accordance with operational procedures
	1.3	Hazards are identified, risks are assessed and control measures are implemented
	1.4	Switch equipment and transformer are transported to worksite
	1.5	Liaison and communication issues are resolved in accordance with organisational negotiation procedures
2 Prepare the worksite	2.1	Work plan and resources required are confirmed/checked at worksite
	2.2	Personnel participating in the activity, including plant operators and contractors, are fully briefed
	2.3	Road signs, barriers and warning devices are positioned to ensure a safe worksite
	2.4	Safeworking practices are observed on or about the running track/line
	2.5	Worksite is laid out in accordance with work plan to ensure minimum waste and rework
	2.6	Systems/circuits are isolated as required, proved safe to work on in accordance with works order, and electrical permits are received/accepted/returned as required
3 Install switches and transformers	3.1	Switch equipment, transformers and earthing systems are installed and connected
	3.2	Transformer is tested and voltage output is adjusted

3.3 Visual inspection is carried out to confirm equipment/apparatus is in a safe condition to test and/or commission 3.4 Commission is carried out in accordance with works order/plan Maintain switches and 4 4.1 Maintenance requirement is confirmed by detailed site transformers diagnosis 4.2 Maintenance, including removal, repair, replacement and reinstatement, is carried out in accordance with works order and the condition of equipment 5 **Complete** work 5.1 Worksite is rehabilitated 5.2 Appropriate authority is notified on completion of work 5.3 Records and documentation for updating system data are completed and processed

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 TLIB4071A Install and maintain pole mounted switches and transformers.

Links

Companion Volume Implementation Guides are found in VETNet https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851