



Australian Government

Department of Education, Employment and Workplace Relations

TLIB4007B Inspect poles and associated hardware

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit involves the skills and knowledge required to inspect poles and associated hardware in accordance with safeworking and regulatory requirements and workplace procedures, including planning and preparing for the inspection, conducting the inspection of the poles and associated hardware, and completing the inspection in accordance with workplace requirements.

Application of the Unit

Persons achieving competence in this unit will need to fulfil the applicable legislated rail safety requirements including acts and regulations from each state and territory together with any nationally approved compliance codes and/or guidelines.

Work is performed under minimal supervision, generally within a team environment. It involves the application of routine operational principles and procedures to the inspection of poles and associated hardware as part of workplace activities across a variety of operational contexts within the Australian rail system.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

The required outcomes described in this unit of competency contain applicable facets of Employability Skills. The Employability Skills Summary of the qualification in which this competency is packaged will assist in identifying employability skill requirements.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

Elements and Performance Criteria

Element	Performance Criteria
1 Plan and prepare for inspection	1.1 Inspection program or works order is received/ accessed, analysed and confirmed, if necessary by site inspection 1.2 Resources required for the job are identified and scheduled 1.3 Liaison and communication issues are resolved 1.4 Personnel participating in task, including plant operators and contractors, are fully briefed
2 Conduct inspection of poles and associated hardware	2.1 Worksite requirements are confirmed and hazards identified by site inspection 2.2 Road signs, barriers and warning devices are positioned, and worksite protection is provided 2.3 Safeworking practices are observed on or about the running line/track 2.4 Pole structures, including foundations and hardware, are inspected by test or examination against approved specifications
3 Complete the inspection	3.1 Worksite is rehabilitated, and work is completed in an agreed time and with minimum waste 3.2 Inspection reports are completed and pole records are updated according to workplace procedures

Required Skills and Knowledge

REQUIRED KNOWLEDGE AND SKILLS

This describes the essential knowledge and skills and their level required for this unit.

Required knowledge:

Applicable legislated rail safety requirements including acts and regulations from each state and territory together with any nationally approved compliance codes and/or guidelines

Relevant OH&S and environmental procedures and regulations, including OH&S instructions related to pole erection, site safety and rescue techniques

Workplace procedures for the inspection of poles and associated hardware

Problems that may occur during the inspection of poles and associated hardware, and action that can be taken to report or resolve the problems

Hazards that may exist when inspecting poles and associated hardware and ways of controlling the risks involved

Workplace and commercial technical manuals, publications and instructions which relate to pole quality and chemical treatment

Characteristics, capabilities, uses, limitations and location standards of the types of poles

Mechanical principles related to structures

Pole maintenance techniques and processes

Soil types and stabilisation processes

Diagnostic and fault finding techniques relevant to the inspection of poles and associated hardware

Regulatory and workplace requirements for rigging, traffic control and guidance signals for planned operations

Workplace documentation and records systems related to pole management

Procedures for the use of relevant support plant and equipment

Required skills:

Communicate effectively with others when inspecting poles and associated hardware

Communicate plans, intentions and safety criteria to others

Read and interpret technical instructions and manuals, procedures, information and signs relevant to the inspection of poles and associated hardware

Interpret and follow operational instructions and prioritise work

Complete documentation related to the inspection of poles and associated hardware

Operate electronic communication equipment to required protocol

Work collaboratively with others when inspecting poles and associated hardware

Adapt appropriately to cultural differences in the workplace, including modes of behaviour and interactions with others

Promptly report and/or rectify any identified problems, faults or malfunctions when inspecting poles and associated hardware in accordance with regulatory requirements and workplace procedures

Implement contingency plans for unexpected events when inspecting poles and associated hardware

Apply precautions and required action to minimise, control or eliminate hazards that may exist during work activities

Monitor work activities in terms of planned schedule

Modify activities depending on differing operational contingencies, risk situations and environments

Work systematically with required attention to detail without injury to self or others, or damage to goods or equipment

Adapt to differences in equipment in accordance with standard operating procedures

Select and use appropriate pole testing equipment

Select and use required personal protective equipment conforming to industry and OH&S standards

Use hand tools

Operate relevant minor plant and equipment

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and skills, the range statement and the assessment guidelines for this Training Package.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

The evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria of this unit and include demonstration of applying:
the underpinning knowledge and skills
relevant legislation and workplace procedures
other relevant aspects of the range statement

Context of and specific resources for assessment

Performance is demonstrated consistently over a period of time and in a suitable range of contexts
Resources for assessment include:
a range of relevant exercises, case studies and other simulated practical and knowledge assessment, and/or
access to an appropriate range of relevant operational situations in the workplace

In both real and simulated environments, access is required to:
relevant and appropriate materials and/or equipment, and/or
applicable documentation including workplace procedures, regulations, codes of practice and operation manuals

Method of assessment

Assessment of this unit must be undertaken by a registered training organisation
As a minimum, assessment of knowledge must be conducted through appropriate written/oral tests
Practical assessment must occur:
through appropriately simulated activities at the registered training organisation, and/or
in an appropriate range of situations in the workplace

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance.

Operations may be conducted:	by day or night in all relevant weather conditions
Work may be conducted in:	restricted spaces or exposed conditions controlled or open environments
Work may involve exposure to:	chemicals, dangerous or hazardous substances movements of equipment, materials and vehicles
Pole types may include:	wood concrete steel composite
Associated hardware may include:	insulators crossarms stays earth down leads and bond wires crossarm braces pole steps shackle straps associated bolts and clamps
Maintenance requirements may be obtained from:	site inspection works orders workplace personnel client requests
Inspection/testing devices may include:	electronic data capture devices computers sonic testing devices shigometer X-ray CAT-scanner proof load tester drills
Works orders may include:	drawings plans resource and materials lists.

materials lists

Resources may include:	personnel plant equipment transport
Liaison may involve:	clients authorities landowners personnel
Communication equipment may include:	two-way radios telephones
Information may be provided:	electronically in writing, via forms/documents orally, via face-to-face communications
Depending on the type of organisation concerned and the local terminology used, workplace procedures may include:	company procedures enterprise procedures organisational procedures established procedures
Safety and protective equipment may include:	high visibility clothing hearing protection gloves sunscreen sunglasses safety glasses insect repellent safety headwear safety footwear portable radios hand lamps flags safety devices
Information/documents may include:	applicable legislated rail safety requirements including acts and regulations from each state and territory together with any nationally approved compliance codes and/or guidelines relevant log or record book maintenance notices, records and requests local instructions manufacturers or workplace equipment operation manuals operational instructions, policies and workplace procedures emergency procedure manuals

	two-way radio operation procedures conditions of service, legislation and industrial agreements including workplace agreements and awards
Applicable regulations and legislation may include:	applicable legislated rail safety requirements including acts and regulations from each state and territory together with any nationally approved compliance codes and/or guidelines relevant Australian Standards and related requirements relevant state/territory OH&S legislation relevant state/territory environmental protection legislation

Unit Sector(s)

Not applicable.

Competency Field

B - Equipment Checking&Maintenance