



Australian Government

Department of Education, Employment and Workplace Relations

TLIS2033A Install and repair temporary track supports

Release: 1

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Modification History

Not Applicable

Unit Descriptor

Unit Descriptor

This unit involves the skills and knowledge required to install and repair temporary track supports in accordance with safeworking and regulatory requirements and workplace procedures. It includes determining job requirements, preparing and installing the temporary support, and completing documentation. Licensing or certification requirements may be applicable to this unit.

Application of the Unit

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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 some supervision, generally within a team environment. It involves the application of routine operational principles and procedures to install and repair temporary track supports as part of workplace activities across a variety of operational contexts within the Australian rail system.

Operators of mechanised equipment must have undertaken training and, where appropriate, hold the relevant licence, permit or certificate and be recognised as competent for the class of machinery being used.

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Not Applicable

Employability Skills Information

Employability Skills This unit contains employability skills.

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

ELEMENT	PERFORMANCE CRITERIA
1 Determine job requirements	1.1 Worksite is identified 1.2 Plant, equipment and materials are organised to meet the scope of the job and installation type
2 Prepare and install or repair temporary support	2.1 Where required, foundation is prepared in accordance with site requirements and to specifications 2.2 Component surfaces are treated with appropriate coating as required to prevent degradation of components 2.3 Temporary support is installed in accordance with workplace standards and procedures 2.4 Level and alignment is adjusted to the running surface to ensure the correct geometry and profile 2.5 Where required, temporary support is adjusted/readjusted and secured to ensure full bearing is achieved for integrity and safety of structure
3 Complete documentation	3.1 Documentation is completed as required in accordance with 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:

- Relevant safety, OH&S and environmental procedures and regulations
- Workplace procedures for the installation and repair of temporary track supports
- Problems that may occur during the installation and repair of temporary track supports, and action that can be taken to report or resolve the problems
- Hazards that may exist during the installation and repair of temporary track supports, and ways of controlling the risks involved
- Emergency procedures
- Local authority procedures
- Relevant recording and documentation procedures

Required skills:

- Communicate effectively with others when installing or repairing temporary track supports

Required skills:

- Read and interpret plans, specifications, instructions and manuals relevant to the installation or repair of temporary track supports
- Follow operational instructions and work sequences when installing or repairing temporary track supports
- Check compliance between work and job specifications
- Complete documentation related to the installation or repair of temporary track supports
- Operate communication equipment to required protocol
- Promptly report and/or rectify any identified problems, faults or malfunctions that may occur when installing or repairing temporary track supports in accordance with regulatory requirements and workplace procedures
- Monitor work activities in terms of planned schedule
- Modify activities depending on differing operational contingencies, risk situations and environments
- Select and use required personal protective equipment
- Select and use relevant equipment and tools

Evidence Guide**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
- Assessment must include exercises which demonstrate competent performance of the following in a range of situations:
 - planning work requirements
 - organising plant, materials and equipment for a range of jobs
 - installing and/or repairing a range of temporary supports

EVIDENCE GUIDE

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/or 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 equipment, and
 - 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 activities in an appropriately simulated environment 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 weather conditions

Work may be conducted in:

- restricted spaces
- exposed conditions
- controlled or open environments

Work may involve:

- exposure to chemicals, and dangerous or hazardous substances
- movements of equipment, goods and vehicles

RANGE STATEMENT

Equipment may include:

- front end loaders, back hoes, cranes
- manual tools including bars, hammers and spanners
- small power tools
- chainsaw
- compression borer
- compaction equipment such as rollers and wacker packer
- oxy and cutting equipment
- scaffolding
- ladders
- elevated work platform (EWP)

Support structures may include:

- overpinning/track baulks
- underpinning
- pig sties
- temporary bridge support

Liaison may include:

- internal/external personnel from other work areas (e.g. train controllers)
- road authorities
- local councils
- landowners

Communications systems may include:

- two-way radios
- telephones/mobile phones
- agreed audible or hand signals

Depending on work context, safety and personal protective equipment may include:

- high visibility clothing
- hearing protection
- gloves
- sunscreen
- sunglasses
- safety glasses
- insect repellent
- safety headwear
- safety footwear
- portable radios/mobile phone
- hand lamps
- flags
- safety devices

Depending on the type of organisation concerned and the local terminology used, workplace procedures may include:

- company procedures
- enterprise procedures
- organisational procedures
- established procedures

RANGE STATEMENT

Information/documents may include:

- operational instructions, policies and workplace procedures
- local authority regulations and procedures
- work orders
- technical instructions
- manufacturers or workplace equipment instructions and operation manuals
- emergency procedure manuals
- two-way radio/mobile phone operation procedures
- QA plans, data and document control
- conditions of service, legislation and industrial agreements including workplace agreements and awards

Applicable procedures and codes may include:

- legislated rail safety requirements including applicable acts and regulations from each state and territory together with any nationally approved compliance codes and/or guidelines
- relevant state/territory regulations, codes of practice and safeworking system requirements
- relevant Australian Standards and related requirements, including AS 4292
- relevant state/territory OH&S legislation
- relevant state/territory environmental protection legislation

Unit Sector(s)

Not Applicable

Competency Field

Competency Field

S - Construction and Installation