



Australian Government

Department of Education, Employment and Workplace Relations

TLIS2036A Use chemical repair products

Release: 1

TLIS2036A Use chemical repair products

Modification History

Not Applicable

Unit Descriptor

Unit Descriptor

This unit involves the skills and knowledge required to use chemical repair products in accordance with safeworking and regulatory requirements and workplace procedures. It includes determining the work requirements, applying the chemical repair method in accordance with manufacturers instructions, and completing all required documentation. Licensing or certification requirements are not 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 use chemical repair products as part of workplace activities across a variety of operational contexts within the Australian rail system.

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 work requirements	1.1 Site is inspected thoroughly to establish best means of repair/installation 1.2 Work requirements are determined to identify scope of work and resources required
2 Apply repair method	2.1 Components and surfaces are cleaned and prepared in accordance with manufacturers instructions or workplace procedures to ensure maximum bond strength 2.2 Chemical repair product is mixed and prepared in accordance with manufacturers instructions or workplace procedures to ensure maximum bond strength 2.3 Chemical repair product is applied in accordance with manufacturers instructions or workplace procedures to minimise waste and maximise effectiveness 2.4 Repair site is cleaned of excess repair product to ensure clean finish 2.5 Repair is stabilised and supported using appropriate method until product is sufficiently cured to enable maximum bond strength 2.6 Chemical repair product is used in a safe and environmentally sound manner to minimise health and safety risks to personnel
3 Complete documentation	3.1 Documentation is completed in line with company requirements and workplace practice

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 use of chemical repair products
- Problems that may occur during the use of chemical repair products, and action that can be taken to report or resolve the problems
- Hazards that may exist during the use of chemical repair products, and ways of controlling the risks involved
- Information in relevant workplace technical manuals and instructions
- Characteristics of relevant plant and equipment, structures and chemical products used in work

REQUIRED KNOWLEDGE AND SKILLS

activities

- Hazardous situations and related personal protection measures
- Required personal protective equipment
- Relevant recording and documentation procedures

Required skills:

- Communicate effectively with others when using chemical repair products
- Read and interpret instructions, procedures, information and labels relevant to the use of chemical repair products
- Interpret and follow operational instructions and prioritise work when using chemical repair products
- Complete documentation related to the use of chemical repair products
- Operate electronic communication equipment to required protocol
- Work collaboratively with others when using chemical repair products
- Promptly report and/or rectify any identified problems, faults or malfunctions that may occur when using chemical repair products in accordance with regulatory requirements and workplace procedures
- Monitor work activities in terms of planned schedule
- Check compliance between work and job specifications
- 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 equipment
- 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

- 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:

EVIDENCE GUIDE

unit

- 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:
 - inspecting repair site and determining scope of work
 - selecting and using the correct repair method
 - completing documentation according to workplace requirements

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

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

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|---|---|
| Operations may be conducted: | <ul style="list-style-type: none">• by day or night• in all weather conditions |
| Work may be conducted in: | <ul style="list-style-type: none">• restricted spaces• exposed conditions• controlled or open environments |
| Work may involve: | <ul style="list-style-type: none">• exposure to chemicals, and dangerous or hazardous substances• movements of equipment, goods and vehicles |
| Equipment may include: | <ul style="list-style-type: none">• hand tools• special safety equipment for handling chemicals• mixer• air compressor |
| Materials may include: | <ul style="list-style-type: none">• epoxy resins• dry clad and other similar products |
| Communications systems may include: | <ul style="list-style-type: none">• two-way radios• telephones/mobile phones• agreed audible or hand signals |
| Depending on work context, safety and personal protective equipment may include: | <ul style="list-style-type: none">• high visibility clothing• hearing protection• gloves• sunscreen• sunglasses• safety glasses• insect repellent• safety headwear• safety footwear• portable radios/mobile phone• hand lamps• flags• respirator• safety mask• gas detectors• safety devices |
| Depending on the type of organisation concerned and the local terminology used, workplace procedures may include: | <ul style="list-style-type: none">• company procedures• enterprise procedures• organisational procedures• established procedures |

RANGE STATEMENT

Information/documents may include:

- operational instructions, policies and workplace procedures
- work orders
- technical instructions
- material safety data sheets (MSDS)
- manufacturers or workplace equipment instructions and operation manuals
- emergency procedure manuals
- two-way radio 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 acts and regulations from each applicable state and territory together with any nationally approved compliance codes and/or guidelines
- 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