



Australian Government

TLIW3034 Apply protective coating systems to structures

Release: 2

TLIW3034 Apply protective coating systems to structures

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 Performance Evidence
- Minor statement change in 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 apply protective coating systems to structures using manual or mechanical methods in accordance with organisational requirements.

It includes planning, preparing the surface, applying surface coatings and completing required documentation.

People achieving competence in this unit will need to fulfil any legislated work health and safety (WHS)/occupational health and safety (OHS) requirements and applicable state/territory rail safety requirements, and to comply with relevant codes of practice and/or guidelines.

Work involves applying routine operational principles and procedures when applying protective coating systems to structures, as part of workplace activities across a variety of contexts within the Australian rail system.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

W – Equipment and Systems Operations

Unit Sector

Rail sector.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

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| 1 Plan surface coating process | <p>1.1 Equipment, accessories and consumables are assembled and checked for applicability to the surface coating tasks</p> <p>1.2 Safety data sheets (SDS)/material safety data sheets (MSDS), product application and safety information are read and used to inform work practices</p> <p>1.3 Hazards are identified, risks are assessed and control measures are implemented</p> <p>1.4 Particular process techniques, time and safety requirements are noted and used to inform work planning</p> |
| 2 Undertake surface preparation | <p>2.1 Characteristics of uncoated surfaces and problems to be rectified are identified</p> <p>2.2 Appropriate surface preparation is carried out in accordance with identified problems and organisational standards</p> <p>2.3 Surface preparation is checked for compliance with required organisational standards</p> |
| 3 Apply surface coating | <p>3.1 Required surface coating materials and methods to be used are identified and appropriate tools, equipment and materials are selected</p> <p>3.2 Sequence of work is identified, maximising potential of the applied finish</p> <p>3.3 Equipment and accessories are used in line with manufacturer and organisational specifications</p> <p>3.4 Surface coating depth and coverage are checked for compliance with specifications</p> <p>3.5 Surfaces are kept free of contamination</p> |

- 3.6** Faults and problems are identified and action is taken to rectify them in accordance with manufacturer specifications and organisational procedures
- 4 Complete workplace operations**
 - 4.1** Tools and equipment are cleaned prior to storage
 - 4.2** Tools, equipment and unused materials are relocated to storage or next operational location as required
 - 4.3** Waste materials are disposed of correctly following organisational and environmental policies and procedures
 - 4.4** Documentation and records are completed in accordance with organisational 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 TLIW3034A Apply protective coating systems to structures.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>