



**Australian Government**

# **TLIW0003 Grind rail on tram/light rail systems**

**Release: 1**

# TLIW0003 Grind rail on tram/light rail systems

## Modification History

**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 grind rail welds and faults on tram or light rail systems in accordance with tram/light rail network standards, safeworking and regulatory requirements, and organisational procedures.

It includes determining job requirements, grinding weld and/or weld repair, grinding rail to repair surface defects and completing required documentation.

This competency relates to grinding new welds and welded repairs on the rail and check rail, grinding out corrugations and re-profiling the rail.

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.

#### **1 Determine job requirements**

### PERFORMANCE CRITERIA

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

**1.1** New welds and weld repairs are located

**1.2** Corrugations on the rail are identified

- 1.3 Hazards are identified, risks are assessed and control measures are implemented
    - 1.4 Appropriate equipment is selected
    - 1.5 Appropriate repair method and/or profile is selected to ensure completed work will meet specifications
    - 1.6 Site is cleared of obstructions and combustible material
    - 1.7 Traffic management plan is implemented, where required, in accordance with workplace procedures
- 2 **Grind weld repair**
  - 2.1 Rail and check rail are ground to profile using approved equipment in accordance with workplace procedures
  - 2.2 Grinding equipment is operated safely in accordance with work health and safety (WHS)/occupational health and safety (OHS) and environmental requirements
  - 2.3 Rail profile and vertical and horizontal alignment are measured to ensure compliance with tram/light rail network or acceptance standards
  - 2.4 Rail surface condition is assessed for compliance with tram/light rail network standards
- 3 **Grind rail to repair corrugations**
  - 3.1 Rail is ground using approved equipment in accordance with workplace procedures
  - 3.2 Grinding equipment is operated safely in accordance with WHS/OHS and environmental requirements
  - 3.3 Finished surface is checked to ensure compliance with specifications
- 4 **Re-profile rail**
  - 4.1 Rail is re-profiled using approved equipment in accordance with workplace procedures
  - 4.2 Equipment is operated safely in accordance with WHS/OHS and environmental requirements
  - 4.3 Finished surface is checked to ensure ground profile complies with organisational requirements and specifications
- 5 **Complete documentation**
  - 5.1 Required documentation procedures and processes are confirmed

- 5.2 Documentation is filled in legibly and proofread
- 5.3 Documentation is processed in accordance with workplace 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.

## Unit Mapping Information

This unit replaces and is equivalent to TLIW3042 Grind rail on tram/light rail systems.

## Links

Companion Volume Implementation Guides are found in VETNet -

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