



**Australian Government**

# **TLIW2012 Grind rails**

**Release: 1**

## **TLIW2012 Grind rails**

### **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 and welds in accordance with rail industry standards, safeworking and regulatory requirements, and workplace procedures.

It includes determining job requirements, grinding weld and/or weld repair, grinding rail to repair surface defects, and completing all required documentation. This competency relates to the grinding of new welds and weld repairs, wheel burns, rail batter and overflow in plain track.

People achieving competence in this unit will need to fulfil the applicable state/territory legislated rail safety requirements and to comply with relevant codes of practice and/or guidelines.

Work is performed under some supervision, generally within a team environment. It involves the application of routine operational principles and procedures when grinding rail and welds, as part of workplace activities across a variety of operational 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**

Not applicable.

### **Elements and Performance Criteria**

Elements describe the      Performance criteria describe the performance needed to

essential outcomes.

demonstrate achievement of the element.

**1 Determine job requirements**

- 1.1 New welds and weld repairs are located
- 1.2 Defects relating to wheel burns, rail battering and rail overflow 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

**2 Grind weld and/or weld repair**

- 2.1 Rail is 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 gauge face is ground to match adjacent rail in curves, in accordance with standards and procedures
- 2.4 Rail profile and vertical and horizontal alignment are measured to ensure compliance with acceptance standards
- 2.5 Rail surface condition is assessed for compliance with acceptance standards

**3 Grind rail to repair surface defects**

- 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 specification

**4 Complete documentation**

- 4.1 Required documentation procedures and processes are confirmed
- 4.2 Documentation is filled in legibly and proofread
- 4.3 Documentation is processed in accordance with workplace requirements

## **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 Companion Volume Implementation Guide.

## **Unit Mapping Information**

This unit replaces and is equivalent to TLIW2012A Grind rails.

## **Links**

Companion Volume implementation guides are found in VETNet -

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