



Australian Government

TLIW0004 Grind rails

Release: 1

TLIW0004 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 network 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 unit 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

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.

- | | |
|---|---|
| 1 Determine job requirements | <ul style="list-style-type: none">1.1 New welds and weld repairs are located1.2 Defects relating to wheel burns, rail battering and rail overflow are identified1.3 Hazards are identified, risks are assessed and control measures are implemented1.4 Appropriate equipment is selected1.5 Appropriate repair method and/or profile is selected to ensure completed work will meet specifications1.6 Site is cleared of obstructions and combustible material |
| 2 Grind weld and/or weld repair | <ul style="list-style-type: none">2.1 Rail is ground to profile using approved equipment in accordance with workplace procedures2.2 Grinding equipment is operated safely in accordance with work health and safety (WHS)/occupational health and safety (OHS) and environmental requirements2.3 Rail gauge face is ground to match adjacent rail in curves in accordance with rail network standards and procedures2.4 Rail profile and vertical and horizontal alignment are measured to ensure compliance with rail network standards2.5 Rail surface condition is assessed for compliance with rail network standards |
| 3 Grind rail to repair surface defects | <ul style="list-style-type: none">3.1 Rail is ground using approved equipment in accordance with workplace procedures3.2 Grinding equipment is operated safely in accordance with WHS/OHS and environmental requirements3.3 Finished surface is checked to ensure compliance with rail network specification |
| 4 Complete documentation | <ul style="list-style-type: none">4.1 Required documentation procedures and processes are confirmed4.2 Documentation is filled in legibly and proofread4.3 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 TLIW2012 Grind rails.

Links

Companion Volume Implementation Guides are found in VETNet -

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