



Australian Government

TLIW0001 Apply rail grinding fundamentals

Release: 1

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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 apply rail grinding fundamentals in accordance with rail network standards, safeworking and regulatory requirements, and workplace procedures.

It includes determining job requirements, 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 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

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

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| 1 Identify rail grinding components | 1.1 Basic track and grinding terminology are explained |
| | 1.2 Fundamental grinding components are identified and their purpose is explained |
| 2 Identify rail grinding job requirements | 2.1 New welds and weld repairs are located |
| | 2.2 Hazards are identified, risks are assessed and control measures are implemented |
| | 2.3 Appropriate grinding equipment is selected and checked for correct operations in accordance with workplace procedures |
| | 2.4 Appropriate grinding wheel speed and rate of metal removal is selected in accordance with workplace procedures |
| | 2.5 Appropriate repair method is selected to ensure completed work will meet specifications |
| | 2.6 Site is cleared of obstructions and combustible material |
| 3 Grind rail weld and/or weld repair | 3.1 Rail is ground to specification using approved equipment in accordance with workplace procedures |
| | 3.2 Grinding equipment is operated safely in accordance with workplace and environmental requirements |
| | 3.3 Rail surface condition is assessed for compliance with rail network standards |
| 4 Complete documentation | 4.1 Required documentation procedures and processes are confirmed |
| | 4.2 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.

Unit Mapping Information

This is a new unit. No equivalent unit.

Links

Companion Volume Implementation Guides are found in VETNet -

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