



**Australian Government**

**Assessment Requirements for TLIW3015  
Weld rail using aluminothermic welding  
process**

**Release: 2**

# Assessment Requirements for TLIW3015 Weld rail using aluminothermic welding process

## Modification History

**Release 2.** This is the second release of this unit of competency in the TLI Transport and Logistics Training Package:

- 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.

## Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least ten separate occasions and include:

- applying relevant safeworking system and workplace procedures
- carrying out required welding operations
- checking compliance of work with job specifications
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- implementing fire control workplace procedures
- interpreting and following operational instructions and prioritising work
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring work activities in terms of planned schedule
- operating and adapting to differences in equipment in accordance with manufacturer specifications and operating procedures
- performing pre-operational and post-operational equipment checks in accordance with manufacturer specifications
- planning and preparing for welding method
- preparing rail for welding in accordance with workplace procedures
- reading and interpreting relevant technical data, drawings, instructions and manuals
- reporting and/or rectifying identified problems, faults or malfunctions, in accordance with workplace procedures
- selecting and using required personal protective equipment (PPE)
- using appropriate type or types of welding processes
- working systematically with required attention to detail without injury to self or others, or damage to equipment.

## Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- characteristics of plant and equipment, hardware and components used in welding activities
- contents of relevant workplace technical manuals and instructions
- hazards that may exist when welding rail and ways of controlling the risks involved
- impact of other work activities on welding integrity
- materials identification, handling and storage, safety data sheets (SDS)/material safety data sheets (MSDS) and/or manufacturer instructions
- problems that may occur when welding rail using the aluminothermic technique, and action that can be taken to report or resolve these problems
- relevant rail industry standards
- relevant rail safety, work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- site inspection techniques
- workplace documentation and/or record keeping requirements
- workplace procedures for welding rail using the aluminothermic technique.

## Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Practical assessment of ten (10) successful rail welds using the aluminothermic method in an appropriate range of situations in the rail corridor workplace is required.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, equipment and PPE currently used in industry
- applicable documentation including workplace procedures, regulations, rail industry standards, codes of practice, SDS/MSDS and operation manuals.

## Links

Companion Volume Implementation Guides are found in VETNet -

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