



**Australian Government**

**Assessment Requirements for TLIW3043  
Weld rail on tram/light rail systems using  
electric welding process**

**Release: 2**

# Assessment Requirements for TLIW3043 Weld rail on tram/light rail systems using electric 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 word change in PC 1.1, 4.1 and 6.2
- 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 five separate occasions and include:

- applying relevant safeworking and workplace procedures
- ensuring weld conforms to organisational requirements
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- 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 operating procedures
- performing welding grinding, gouging and testing operations on rails, crossings or switches systems using electric welding processes in accordance with tram/light rail network standards and workplace procedures
- preparing items for welding according to workplace requirements
- 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 hand tools, power tools and equipment
- working systematically with required attention to detail without injury to self or others, or damage to goods or 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:

- documentation and record keeping requirements
- fundamentals of tram track and components
- hazards that may exist when welding rail using an electric welding process and ways of controlling the risks involved
- problems that may occur when welding rail using an electric welding process and action that can be taken to report or resolve these problems
- tram/light rail network standards for weld repairs on rail
- relevant rail danger zones
- relevant safety data sheets (SDS)/material safety data sheets (MSDS) workplace procedures
- relevant tram/light rail safety, work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- track network standards for tram/Light rail, crossing and switch condition and surface profile
- workplace procedures for removing defects by gouging, grinding and welding rail using an electric welding process.

## 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.

Assessment must occur in workplace operational situations or, where this is not available, in simulated workplace operational situations that replicate tram or light rail corridor workplace conditions.

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 assess to:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- applicable documentation including workplace procedures, regulations, tram/light rail network standards, SDS/MSDS, codes of practice 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>