



Australian Government

**Assessment Requirements for TLIW0044
Weld rail on tram/light rail systems using
submerged ARC welding process**

Release: 1

Assessment Requirements for TLIW0044 Weld rail on tram/light rail systems using submerged ARC welding process

Modification History

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 legislation and workplace procedures
- assembling and setting up welding equipment and preparing consumables in accordance with safety data sheets (SDSs)/material safety data sheets (MSDSs), manufacturer instructions 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
- modifying activities depending on operational contingencies, risk situations and environments
- preparing items for welding in accordance with workplace requirements.

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:

- authorisation/approval processes and procedures
- documentation and record keeping requirements
- hazards that may exist when welding rail using submerged welding process and ways of controlling the risks involved
- problems that may occur when welding rail using submerged welding process and action that can be taken to report or resolve these problems
- rail industry acceptance standards for weld repairs on tram/light rail track
- relevant rail danger zones
- relevant safety, work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- SDSs/MSDSs and manufacturer instructions

- workplace procedures for welding rail on tram/light rail systems using submerged arc welding process
- track industry standards for rail condition and surface profile.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

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Assessment must occur in workplace operational situations or, where this is not available, in simulated workplace operational situations that replicate tram/light rail 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 include:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment currently used in industry
- applicable documentation including workplace procedures, regulations, rail industry standards, SDSs/MSDSs, 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>