

Electric Welding Course

Nominal Hours: 70

Course Description

This is a course designed for individuals who heat and cut materials using oxy-LPG equipment and apply an electric welding process to rail.

No licensing, legislative or certification requirements apply to this course at the time of publication.



Units of competency in this course

If a participant completes all requirements of the course, they will receive a nationally recognised Statement of Attainment for the following units:

TLIW0006 Heat and cut materials using oxy-LPG equipment for the rail industry

TLIW0036 Apply electric welding process to rail

TLIW0005 Grind switches and crossings



Cost

Please contact our office for current pricing.



Duration

This course is conducted over five days from 8.00 am to 4.00 pm, and then a further assessment day after completion of on-the-job learning.



Do you need to bring Personal Protective Equipment?

Yes. Participants will need to provide: ankle-high steel cap boots, long-sleeved hi-vis shirt or vest with an X on the back and H/goal-posts on the front, long pants, a hard hat, safety glasses and gloves.



Will I need to undertake work placement?

Yes. Once you complete the face to face hours you are then required to complete a logbook that will gather your experience on the job. You will be required to have your supervisor sign off on the logbook as you complete each area.



What are the Entry Requirements?

Participants must:

- complete an expression of interest form prior to enrolment.
- already hold the following units of competency, or an equivalent unit, prior to enrolling:
 - TLIF0020 Safely access the rail corridor
 - TLIB0012 Maintain and use hand tools
 - TLID0020 Shift materials safely using manual handling methods
 - TLIE1003 Participate in basic workplace communication
 - TLIF0025 Follow work health and safety procedures
 - TLIF2010 Apply fatigue management strategies
 - TLIB2085 Apply track fundamentals
 - TLIU2008 Apply environmental procedures to rail infrastructure
 - TLIB2092 Operate minor mechanical equipment
 - TLIS2044 Carry out rail installation
 - TLIS2034 Install and repair rail fastening systems
- have an experienced and qualified workplace supervisor who can mentor the participant through the on-the-job Logbooks and work experience.

What Next?

Before training:

1. Participants need a **Unique Student Identifier (USI) Number** to study within Australia. A USI gives people access to an online record of training completed since January 2015. Participants who do not currently have a USI must obtain one before attending training at Go Train Industry. **Please visit www.usi.gov.au to obtain a USI.** Participants need to provide Go Train with their USI number as we cannot issue a certificate until the USI is verified.
2. To secure a spot in the course participants need to enrol and pay for the course prior to commencement of training.
3. Participants should refer to our website if they think they may be eligible to apply for RPL or Credit Transfer.
4. If a participant is unable to attend, they must contact Go Train as soon as possible. If less than 48 hours' notice of cancellation is provided, Go Train are unable to refund any fees paid.

Language, Literacy and Numeracy

If a participant is deemed, prior to enrolment or throughout the training, to possess a lower level of language, literacy or numeracy than the minimum required for this course, Go-Train Industry Pty Ltd will provide advice and support regarding further learning options.

At times, further language or literacy development or remedial assistance may be required prior to the continuation or completion of the student's course of study. The cost of this further LLN development or remedial assistance must be covered by the participant or employer.



On the day of training:

1. Bring Photo ID - Preferably a driver's licence showing full name, date of birth and address.
2. **Participants must wear covered in shoes.** Please note that we have a **NO THONGS** policy and individuals will be sent home unless the correct footwear is worn.
3. Course fees must already be paid in full before attending each stage.

At the course

1. When participants attend training, they will be asked to sign a Training Attendance Sheet. Signing the attendance sheet is an acknowledgement that they have read and understood this Pre-Training Information prior to attending the course.
2. This course will be delivered in a classroom environment by a qualified and experienced Rail Trainer.
3. All learning materials will be provided to participants.
4. Theory assessments will be conducted for each of the units throughout the course.
5. Workplace experience and mentoring on-the-job must be gained after the formal training of this course.



After classroom training:

1. Participants are required to gain work experience under the guidance of a suitably qualified workplace supervisor/mentor.
2. Participants will be issued with a weld logbook to record their experience as they work. The weld logbook gathers your work experience. You will be required to complete up to 40 welds prior to final assessment.
3. Participants should perform all relevant tasks and procedures as often as possible across the full range of relevant conditions - for example, during daylight and at night, in different weather conditions, in different geographical locations and terrain, with different equipment.
4. Once this logbook is completed participants can undertake final assessment for the course.
5. If the assessor feels the participant needs further experience, participants will need to gather this additional evidence before being able to undertake any further assessments.



After Assessment:

1. **Statement of Attainment** - On successful completion of each stage, participants will receive a nationally recognised Statement of Attainment showing units completed.
2. **Rail Industry Work (RIW) Card** - Participants need to update their Rail Industry Work (RIW) Card after the training. Updating the RIW is the participant's responsibility. Please refer to the <https://www.riw.net.au/> website for further information.

Locations

Please contact our office on 1300 698 158 to confirm delivery dates and to enrol.

Participants are responsible for any travel to practical locations, their meals and lodgings throughout the course.

Newcastle NSW

Suite 6,
26 Balook Drive.
Beresfield NSW 2322

Salisbury Qld.

Building 9B,
87 Fairlie Tce.
Salisbury QLD 4107

Kensington Vic.

105 Bakehouse Rd.
Kensington VIC 3031

Participant's workplace

We can come to you.
Contact us for group bookings.

Fine Print

Please refer to our Student Handbook located on our website:

www.gotrain.com.au

for further information regarding participant rights and obligations as a student of Go-Train Industry Pty Ltd.

To ensure a participant leaves with the most up to date qualification

If during or after enrolment, the course in which participants are enrolled is updated in line with national industry standards, Go Train reserve the right to transition participants into an alternate course. If this becomes necessary, we will advise participants of the change and the arrangements which will be available to complete the alternate course.



What can participants do once they complete this course?

Participants can complete:

TLI37122 Certificate III in Rail Infrastructure

Training Plan

Day	Unit	Description	Assessments
1	TLIW0006 Heat and cut materials using oxy-LPG equipment for the rail industry	<p>This unit involves the skills and knowledge required to heat and cut materials for the rail industry using oxy-LPG equipment.</p> <p>It includes planning and preparing for work, setting up and testing the equipment, heating and cutting materials, shutting down equipment and completing clean-up activities.</p> <p>People achieving competence in this unit will need to fulfil applicable state/territory legislated work health and safety (WHS)/occupational health and safety (OHS) requirements and rail safety requirements, and to comply with relevant codes of practice and/or guidelines.</p> <p>Work involves heating and cutting steel and includes cutting up waste for salvage; cutting steel, rails and bolts; and cutting holes in plate (with the exception of structural steel members). Heating activities include steel and bolts (excluding structural steel members).</p> <p>No licensing, legislative or certification requirements apply to this unit at the time of publication.</p>	Theory Assessment
2 & 3	TLIW0036 Apply electric welding process to rail	<p>This unit involves the skills and knowledge required to weld rails, crossings and switches using an electric welding process in accordance with rail industry standards, safeworking and regulatory requirements, and workplace procedures.</p> <p>It includes using non-destructive testing to locate defects; preparing rails, crossings or switches for welding; gouging or grinding; setting up welding equipment; performing welding operations; checking weld conformance; and completing</p>	Theory Assessment

required documentation. These processes are used to repair rail surface defects and restore rail profile to plain rail, crossings and switches.

People achieving competence in this unit will need to fulfil applicable state/territory legislated rail safety requirements and to comply with rail industry standards, codes of practice and/or guidelines.

Work is performed under some supervision, generally in a team environment. It involves the application of routine operational principles and procedures when welding rail using an electric welding process, as part of workplace activities across a variety of operational contexts within the Australian rail system.

Operators of mechanised equipment must have undertaken training and, where appropriate, hold the relevant licence, permit or certificate and be recognised as competent for the class of machinery being used.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Work is performed under some supervision, generally within a team environment. It involves the application of routine operational principles and procedures when grinding switches and crossings, 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.

5	TLIW0006 Heat and cut materials using oxy-LPG equipment for the rail industry	Presentation of Logbook and Final Assessments
	TLIW0036 Apply electric welding process to rail	
	TLIW0005 Grind switches and crossings	

To enrol please contact our office on 1300 698 158