



## Course Information

# UEE41211 - Certificate IV in Electrical - Rail Signalling

### Description

This qualification provides competencies to install, certify, fault find and maintain rail signalling equipment and systems.

### Duration

12 - 24 months delivered in across 10 training sessions 5 days in length. The timing of these sessions is confirmed in consultation with employers.

### Areas Covered

- ◆ Personal development plans, work health & safety, environment and sustainability.
- ◆ Signalling Principles
- ◆ Assembly, wiring and installation methods
- ◆ Fault Finding Techniques
- ◆ Signal Safeworking
- ◆ Test and repair of signalling cables

### Installation and maintenance of :

- ◆ Signalling power supplies
- ◆ Track circuit leads and bonds
- ◆ Train detection systems
- ◆ Track side signal and train protection equipment
- ◆ Level Crossings
- ◆ Points
- ◆ Relays and Computer Based Interlockings
- ◆ Non-vital telemetry systems



### Our Approach

Our Broadmeadow training centre has been custom built for the delivery and assessment of this qualification. Learners will have the opportunity to build and test their own signalling system as they progress through the course.

Our training includes multiple practical demonstrations - students will install, maintain and fault find on real signalling equipment in a safe environment, completing supporting documentation as they go.

Our in-class assessments are supported through on-the-job activities.

### Pre-requisites

Learners are required to have completed or currently be enrolled in UEE30811 - Certificate III in Electrotechnology - Electrician.

### Additional Requirements

Learners must be currently employed in the rail industry.

### Training Location

**Competency Australia**  
63 Broadmeadow Rd,  
Broadmeadow NSW 2292.

### More Information

For more information please contact us:

**web** [CompetencyAustralia.edu.au](http://CompetencyAustralia.edu.au)  
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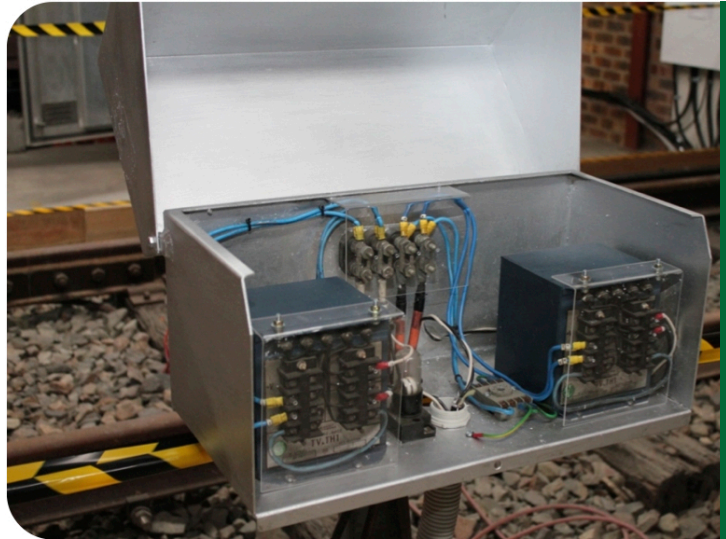
Our training centre facilities include :

- ◆ Electrical laboratory room with monitoring and test equipment
- ◆ Control centre, including control panel and communications rack
- ◆ Relay room - complete with relays, communications and axle counter.
- ◆ Cable fault panel
- ◆ Location case with operational signalling equipment
- ◆ Rail, ballast, signals, track boxes and point machine.
- ◆ Variety of train detection equipment including axle counters, high voltage impulse, audio frequency and DC track circuits.
- ◆ Individual wiring racks for installation
- ◆ Training room and large meal area



### Our Trainers

Our trainers and assessors are respected technical experts and provide relevant, up-to-date knowledge of modern equipment and current work methods.



### Units of Competency

- ◆ UEENEEE038B Participate in development and follow a personal development plan.
- ◆ UEENEEK145A Implement and monitor energy sector environmental and sustainable policies and procedures.
- ◆ UEENEEN102A Assemble and wire internal electrical rail signalling equipment.
- ◆ UEENEEN103A Install and maintain rail track circuit leads and bonds.
- ◆ UEENEEN104A Test copper rail signalling cables.
- ◆ UEENEEN105A Install and maintain rail signalling power supplies.
- ◆ UEENEEN107A Install and maintain active level crossing equipment.
- ◆ UEENEEN108A Install and maintain power operated point actuating devices.
- ◆ UEENEEN109A Install and maintain train detection equipment
- ◆ UEENEEN110A Install and maintain non-vital telemetry systems
- ◆ UEENEEN111A Install and maintain trackside signal and train protection equipment
- ◆ UEENEEN112A Install and maintain vital relay interlocking systems
- ◆ UEENEEN114A Install and maintain computer based interlocking rail systems
- ◆ UEENEEN118A Find and repair rail signalling system faults
- ◆ UEENEEN121A Repair rail signalling power and control cables