



Australian Government

**UEERS002 Decommission electrical and
electromechanical rail signalling from
service**

Release: 1

UEERS0002 Decommission electrical and electromechanical rail signalling from service

Modification History

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

Application

This unit involves the skills and knowledge required to decommission electrical and electromechanical rail signalling from service on rail networks.

It includes preparing to withdraw electrical and electromechanical rail signalling from service. It also includes completing disconnection of operating and redundant circuitry, equipment and components; testing of remaining circuitry and equipment; finding and repairing faults; testing of control and indicating equipment; and reporting.

Persons achieving competence in this unit will need to fulfil the applicable state/territory legislated rail safety requirements and comply with relevant codes of practice, rules and/or guidelines.

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

Pre-requisite Unit

UEERS0007 Install and maintain non-vital screen-based rail control systems

UEERS0008 Install and maintain non-vital telemetry systems

UEERS0004 Find and repair rail signalling system faults

Competency Field

Rail Signalling

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Prepare to decommission electrical and electromechanical rail signalling from service

- 1.1** Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures for a given work area are identified, obtained and clarified
- 1.2** Hazards are identified, WHS/OHS risks assessed, and control measures and workplace procedures implemented in preparation for work
- 1.3** Scope of decommissioning is determined from job specifications, design drawings and regulatory requirements
- 1.4** Appropriate safe working person/s is consulted to ensure work is coordinated effectively with others involved on the worksite
- 1.5** Materials needed for the safe disconnection of circuits, equipment and components are obtained in accordance with workplace procedures and checked against job specifications
- 1.6** Tools, equipment and testing devices needed to disconnect circuits, equipment and components are obtained in accordance with workplace procedures and checked for correct operation and safety

2 Withdraw electrical and electromechanical rail signalling from service

- 2.1** WHS/OHS risk control measures and workplace procedures for carrying out the work are followed
- 2.2** On-track safe working requirements are complied with in accordance with relevant industry standards and network rules
- 2.3** Inspection is carried out and circuits, equipment and components are checked to ensure they are in accordance with manufacturer and system specifications
- 2.4** Disconnecting, isolating and removal of redundant wiring; the termination of altered wiring; and checking indicators and signal system operation are completed in accordance with network requirements and relevant industry standards
- 2.5** Methods for dealing with unplanned situations are

selected on the basis of safety and specified work outcomes

- 2.6** Decommissioning is performed efficiently, without waste of materials or damage to apparatus, the surrounding environment or services using sustainable energy practices
 - 2.7** System and design faults are verified using relevant, technical information, fault-finding and diagnostic techniques to identify faulty rail signalling equipment
 - 2.8** Faulty rail signalling equipment is replaced, adjusted and secured in accordance with manufacturer specifications and workplace procedures
 - 2.9** Control equipment is adjusted, inspected and tested using workplace test procedures and equipment to ensure it operates in accordance with specified industry technical standards
- 3 Complete decommissioning work and reports**
- 3.1** WHS/OHS work completion risk control measures and workplace procedures are followed
 - 3.2** System faults are identified and reported for follow-up action in accordance with workplace procedures
 - 3.3** Inspection and test results are documented in accordance with workplace procedures and faulty or replaced equipment is tagged and despatched to maintain equipment spares

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UEE Electrotechnology Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEENEEN127A Decommission electrical and electro-mechanical rail signalling from service.

Links

Companion Volume implementation guides are found in VETNet - -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>