



Australian Government

UEERS0004 Find and repair rail signalling system faults

Release: 1

UEERS0004 Find and repair rail signalling system faults

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 find and repair rail signalling system faults.

It includes preparing to find and repair signalling system faults, using appropriate fault-finding techniques, repairing or rectifying faults and completing reporting requirements.

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

UEERS0006 Install and maintain computer-based interlocking systems

or

UEERS0014 Install and maintain vital relay interlocking systems

Competency Field

Rail Signalling

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

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|--|---|
| 1 Prepare to find and repair rail signalling system fault/s | <ul style="list-style-type: none">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 clarified1.2 Hazards are identified, WHS/OHS risks assessed, and control measures and workplace procedures are implemented in preparation for work1.3 Safety hazards that have not previously been identified are documented on job safety assessments, risks are assessed, and control measures determined and implemented in consultation with appropriate person/s1.4 Appropriate person/s is consulted to determine the nature and scope of the fault/s and to coordinate effectively with others affected by the fault/s1.5 Likely causes of the fault/s and order of probability are determined from system data and historical trends1.6 Impact of the fault on system is ascertained and appropriate person/s notified in accordance with workplace procedures1.7 Materials needed to find and repair the fault are obtained in accordance with workplace procedures and checked against job specifications1.8 Tools, equipment and testing devices needed to find and repair the fault/s are obtained in accordance with workplace procedures and checked for correct operation and safety1.9 Circuits/equipment are inspected and checked as being isolated, where necessary, in strict accordance with operational procedures and WHS/OHS requirements |
| 2 Find and repair rail signalling system faults | <ul style="list-style-type: none">2.1 WHS/OHS risk control measures and workplace procedures for carrying out work are followed2.2 Signalling system performance parameters/standards are applied to appropriate fault-finding techniques2.3 Inspection and tests are conducted to determine the type and location of fault/s2.4 Wiring system is visually inspected for physical damage or installation defects, as required |

- 2.5 Methods for dealing with unplanned situations are selected on the basis of safety and specified work outcomes
 - 2.6 Ongoing inspections and checks of the signalling system are undertaken to confirm the continued rectification of the fault
 - 2.7 Fault/s are located and identified efficiently, without waste of materials or damage to apparatus, the surrounding environment or services using sustainable energy practices
 - 2.8 Signalling system faults are rectified in accordance with workplace procedures
- 3 Complete repair/s to rail signalling system**
- 3.1 WHS/OHS risk control measures and workplace procedures for carrying out work are followed
 - 3.2 Unresolved faults are reported to appropriate person/s for further action in accordance with workplace procedures
 - 3.3 Inspection and test results, actions taken or recommended are documented and appropriate person/s notified in accordance with workplace procedures
 - 3.4 Component fault/s, test result/s, authorisation/s and permit/s documentation are completed to provide an accurate database and facilitate follow-up action and relevant reports

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 UEENEEN118A Find and repair rail signalling system faults.

Links

Companion Volume implementation guides are found in VETNet - -

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