

# **UEERS0016 Maintain mechanical rail signalling equipment and infrastructure**

Release: 1

# **UEERS0016** Maintain mechanical rail signalling equipment and infrastructure

# **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 maintain mechanical rail signalling and infrastructure connected to electromechanical equipment.

It includes preparing, carrying out and completing the maintenance of mechanical rail signalling equipment and infrastructure.

Persons achieving competence in this unit will need to fulfil the applicable state/territory legislated rail safety requirements and to 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

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

# **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 mechanical signalling equipment and

**1.1** Work health and safety (WHS)/occupational health and safety (OHS) procedures for a given work area are

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#### infrastructure

identified, obtained and applied

- 1.2 Hazards are identified, risks assessed and control measures and workplace procedures implemented
- 1.3 Safety hazards that have not previously been identified are noted on job safety assessments and existing risk control measures are implemented
- **1.4** Maintenance is sequenced in accordance with job specification
- **1.5** Appropriate rail safe working person/s is consulted to ensure work is coordinated effectively with others involved on the worksite
- **1.6** Location of equipment to be maintained is determined from job specifications and diagrams
- 1.7 Materials needed for maintenance are obtained in accordance with workplace procedures and checked against job specification
- 1.8 Tools, equipment and testing devices needed to conduct maintenance work are obtained in accordance with workplace procedures and checked for correct operation and safety
- 2 Carry out mechanical signalling equipment and infrastructure maintenance
- **2.1** WHS/OHS risk control measures and workplace procedures for carrying out work are followed
- 2.2 Chemicals, lubricants and consumables are used and disposed of in accordance with material safety data sheets (MSDS)/safety data sheets (SDS) and WHS/OHS codes of practice
- **2.3** Rubbish, weeds and obstructions are removed from equipment and housings
- **2.4** Visual inspections and checking of operational equipment are performed to identify any equipment faults
- **2.5** External surfaces are prepared/painted in accordance with organisational standards to protect equipment
- **2.6** Internal surfaces and operational components are cleaned and lubricated to ensure operational

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#### effectiveness

- **2.7** Maintenance is carried out in accordance with relevant industry standards and workplace procedures
- 2.8 Existing methods for dealing with unplanned situations are discussed with appropriate person/s and documented in accordance with workplace procedures
- **2.9** Unplanned situations are dealt with safely in a manner that minimises risk to personnel and with the approval of authorised person/s
- **2.10** Maintenance is carried out efficiently without waste of materials, damage to apparatus, the surrounding environment or services using sustainable energy practices
- 3 Complete mechanical signalling equipment and infrastructure maintenance
- **3.1** WHS\OHS work completion risk control measures and procedures are followed
- 3.2 Approval to conduct a check of equipment operation is obtained in accordance with relevant rail operational rules and procedures
- 3.3 Track clearance check is made before conducting equipment operation check to ensure safe train movement
- **3.4** Authorised equipment check is carried out in accordance with workplace procedures to identify any equipment faults
- **3.5** Operational effectiveness of equipment is confirmed through observation during train movements, as required
- **3.6** Equipment faults are identified, recorded and corrective action is taken
- **3.7** Equipment is locked and secured to prevent unauthorised access
- 3.8 Work completion is documented and appropriate person/s notified in accordance with workplace procedures and relevant report/s completed

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#### **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 UEENEEN101A Maintain mechanical rail signalling equipment and infrastructure.

#### Links

Companion Volume implementation guides are found in VETNet -- https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6

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