Australian Government

UEERS0025 Maintain active level crossing equipment

Release: 1

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Modification History

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

This unit replaces and is equivalent to UEERS0005 Install and maintain active level crossing equipment.

Modifications this release include:

- Title changed.
- Application updated to reflect title change.
- Element titles and performance criteria amended to reflect title change.
- Performance criteria 1.6, 2.2, 3.2 and 3.4 added.
- Performance and Knowledge Evidence updated for clarity.

Application

This unit involves the skills and knowledge required to maintain active level crossing equipment on rail networks for road and pedestrian crossings.

It includes maintaining and recertifying and testing active level crossing equipment.

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

UEERS0033 Maintain train detection equipment

Competency Field

Rail Signalling

Unit Sector

Electrotechnology

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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 maintain active level crossing equipment	**1.1** Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures for a given work area are identified and applied
	1.2 Hazards are identified, WHS/OHS risks are assessed, and control measures and workplace procedures implemented in preparation for work
	1.3 Scope of maintenance is determined from maintenance schedules, job specifications, drawings and regulatory requirements
	1.4 Appropriate rail safe working person/s is consulted to ensure work is coordinated effectively with others to minimise rail traffic disruption
	1.5 Materials needed for the maintenance work are obtained in accordance with workplace procedures and checked against job specifications
	1.6 Tools, equipment and testing devices needed for maintenance work are obtained in accordance with workplace procedures and checked for correct operation and safety
	1.7 Appropriate safe procedures for road vehicles, pedestrians and rail vehicles using the crossing during the maintenance activity are confirmed to be in place
	1.8 Authorisation to take temporarily out of service or disable systems is obtained in accordance with workplace procedures
2 Maintain active level crossing equipment	**2.1** WHS/OHS risk control measures and workplace procedures for carrying out work are followed
	2.2 On-track safe working requirements are identified and applied in accordance with workplace procedures and safety management system
	2.3 Equipment function is determined from relevant technical manuals and operating instructions to identify

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		accessible operating requirements
	2.4	Equipment and components are cleaned, lubricated and adjusted to specified standard
	2.5	Equipment/component abnormalities are identified and appropriate remedial actions taken to ensure equipment conforms and performs to technical specifications
	2.6	Maintenance is performed efficiently, without waste of materials, damage to apparatus, the surrounding environment or services using sustainable energy practices
	2.7	Equipment faults/damage are identified using efficient fault-finding and diagnostic techniques, including fault indicators, error codes and maintenance records
	2.8	Maintenance are performed using appropriate tools, inspection and test equipment to ensure signalling equipment operates to required technical and operational standards
	2.9	Faulty, worn, damaged or insecure components are replaced, repaired or secured in accordance with manufacturer specifications and workplace requirements
	2.10	Methods for dealing with unplanned situations are determined on the basis of safety and specified work outcomes
	2.11	Fault-finding and repairs are carried out efficiently, without waste of materials, damage to apparatus, the surrounding environment or services using sustainable energy practices
	2.12	Equipment is inspected, tested and adjusted using appropriate test equipment and workplace procedures to ensure it operates within the specified technical standards
	2.13	Level crossing lamp alignments are carried out as part of testing and adjusting workplace procedures, as required
3 Complete active level crossing equipment maintenance	**3.1**	WHS/OHS work completion risk control measures and workplace procedures are followed
	3.2	Confirmation that system is functional and that no

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alarms are present or indicated

3.3 Equipment is taken out of service/brought back into use, as required, and documentation is completed in accordance with workplace procedures

3.4 On-track safe working requirements are removed in accordance with workplace procedures and safety management system

3.5 Work records and documentation are completed to ensure accurate maintenance records are maintained

3.6 Worksite/equipment is reinstated in accordance with organisation requirements and faulty components are tagged, recorded and dispatched for repair/replacement

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 UEERS0005 Install and maintain active level crossing equipment.

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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