UEERS0013 Install and maintain train detection 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.

Application

This unit involves the skills and knowledge required to install/maintain train detection equipment in a rail network.

It includes preparing and installing/maintaining train detection equipment. It also includes completing the installation/maintenance of train detection equipment and repairing faults, performing operational tests and 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

UEERS0010 Install and maintain rail signalling power supplies

UEERS0011 Install and maintain rail track circuit leads and bonds

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 install/maintain train detection equipment**	**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 the installation/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 involved on the worksite
		1.5	Materials needed for the installation/maintenance work are obtained in accordance with workplace procedures and checked against job specifications
		1.6	Tools, equipment and testing devices needed for installation/maintenance work are obtained in accordance with workplace procedures and checked for correct operation and safety
2	**Install/maintain train detection equipment**	**2.1**	WHS/OHS risk control measures and workplace procedures for carrying out work are followed
		2.2	Installation/maintenance work is carried out in accordance with manufacturer specifications and workplace procedures
		2.3	Normal function and operating parameters are confirmed in accordance with appropriate manuals, job specifications and commissioning data
		2.4	Fault-finding and diagnostic techniques are used to verify system/faults
		2.5	Faulty, damaged or insecure components are replaced/repaired or secured in accordance with manufacturer specifications and workplace procedures
		2.6	Installation/maintenance, adjusting and testing work is carried out efficiently, without waste of materials or damage to apparatus, the surrounding environment or services using sustainable energy practices

		2.7	Appropriate readings are measured and recorded using relevant test instruments
		2.8	Equipment is tested and adjusted in accordance with manufacturer specifications, workplace and equipment operating procedures
		2.9	Equipment operational inspections and tests are completed in accordance with job specifications and workplace procedures
		2.10	Methods for dealing with unplanned situations are determined on the basis of safety and specified work outcomes
3	**Complete train detection equipment installation/maintenance**	3.1	WHS/OHS risk control work completion measures and workplace procedures are followed
		3.2	Calibration of equipment is verified and equipment is confirmed by functional tests in accordance with workplace and equipment operating procedures
		3.3	Work completion is documented and appropriate rail safe working person/s notified in accordance with workplace procedures and relevant reports produced

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 UEENEEN109A Install and maintain train detection equipment.

Links

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