



Australian Government

UEERS0008 Install and maintain non-vital telemetry systems

Release: 1

UEERS0008 Install and maintain non-vital telemetry systems

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 non-vital telemetry equipment and systems in a rail network.

It includes preparing and installing/maintaining non-vital telemetry system. It also includes completing the installation/maintenance of non-vital telemetry systems, repairing faults, testing telemetry equipment and reporting requirements.

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

Elements describe the essential outcomes.

1 Prepare to install/ non-vital telemetry

PERFORMANCE CRITERIA

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

1.1 Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures

system	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 Safety hazards not previously identified are noted on job safety assessments, and risk control measures are determined and implemented
	1.4 Function of equipment is determined in accordance with operating manuals, rail system specifications and rail transport operator's interface
	1.5 Materials needed to install/maintain non-vital telemetry system are obtained in accordance with system specifications and workplace procedures
	1.6 Tools, equipment and testing devices needed to install/maintain non-vital telemetry system and diagnose the fault are obtained in accordance with workplace procedures and checked for correct operation and safety
2	
Install/maintain non-vital telemetry system	
	2.1 WHS/OHS risk control measures and workplace procedures for carrying out the 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/manufacturer specifications and rail operator's interface
	2.4 Fault-finding and diagnostic techniques are undertaken using circuit diagrams and manufacturer specifications to verify system/faults
	2.5 Methods for dealing with unplanned situations are determined on the basis of safety and specified work outcomes
	2.6 Installation/maintenance work is carried out efficiently, without waste of materials or damage to apparatus, the surrounding environment or services using sustainable energy practices

- 2.7 Fault/s is isolated and assessed to determine appropriate repair method, tools, test and measurement instruments to be used
 - 2.8 Faulty, damaged or insecure components are replaced/repared or secured in accordance with manufacturer/technical specifications, workplace procedures and returned to service
 - 2.9 Parts/components identified as suitable for replacement are replaced from available parts/component resources
 - 2.10 Parts/components requiring repairs beyond the repair capacity of the service centre are despatched for external repairs or disposed of in accordance with workplace procedures
 - 2.11 Faults are diagnosed and rectified efficiently without waste of materials or damage to apparatus, the surrounding environment or services using sustainable energy practices
 - 2.12 Repaired/replaced equipment is tested using approved test equipment in accordance with appropriate test procedures to ensure equipment is fully operational
 - 2.13 Test equipment is checked to ensure it is calibrated to manufacturer/technical specifications in accordance with industry standards and workplace procedures
 - 2.14 Appropriate adjustments and calibrations are carried out to manufacturer/technical specifications in accordance with industry standards and workplace procedures
- 3 Complete non-vital telemetry system installation/maintenance**
- 3.1 WHS/OHS work completion risk control measures and workplace procedures are followed
 - 3.2 Documentation is completed to confirm equipment has been repaired to manufacturer specifications and relevant technical reports produced
 - 3.3 Arrangements are made for the safe return of equipment to the customer and in accordance with workplace procedures

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 UEENEEN110A Install and maintain non-vital telemetry systems.

Links

Companion Volume implementation guides are found in VETNet - -

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