



Australian Government

UEERS0010 Install and maintain rail signalling power supplies

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 rail signalling power supplies.

It includes preparing and installing/maintaining rail signalling power supplies by working safely to installation/maintenance industry standards, matching equipment with that specified for location, terminating cables and connecting wiring compliance, functional testing, certifying and reporting.

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

UEERS0001 Assemble and wire internal electrical rail signalling equipment

Competency Field

Rail Signalling

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to

PERFORMANCE CRITERIA

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

1.1 Work health and safety (WHS)/occupational health and

- install/maintain rail signalling power supplies** safety (OHS) requirements and workplace procedures for a given work area are identified, obtained and clarified
- 1.2** Hazards are identified, risks assessed, and control measures and workplace procedures implemented
 - 1.3** Safety hazards which have not previously been identified are noted on job safety assessments and risk control measures are implemented
 - 1.4** Scope of work and location of power supply are determined by site inspection and from job instructions, specifications and/or diagrams
 - 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 to install/maintain power supplies are obtained in accordance with workplace procedures and checked for correct operation and safety
- 2 Install/maintain rail signalling power supplies**
- 2.1** WHS/OHS risk control measures and workplace procedures for carrying out work are followed
 - 2.2** Power supply is checked to comply with technical industry standards, job specifications and requirements
 - 2.3** Wiring is run and cables terminated to comply with technical industry standards, job specifications and requirements
 - 2.4** Inspection and tests are conducted to ensure installed/maintained power supply complies with job specifications and functions as intended
 - 2.5** Installation/maintenance of power supply is carried out efficiently, without waste of materials, damage to apparatus, the surrounding environment or services using sustainable energy practices
 - 2.6** Correct functioning of equipment is established from reference to manuals, system specifications and commissioning data
 - 2.7** Faults are identified in accordance with relevant technical information of power supplies and

- fault-finding techniques
- 2.8** Faulty, worn, damaged or insecure components are replaced, repaired or secured in accordance with manufacturer specifications and workplace procedures
- 2.9** Existing methods for dealing with unplanned situations are discussed with appropriate person/s and documented in accordance with workplace procedures
- 3 Complete rail signalling power supplies installation/maintenance**
- 3.1** WHS/OHS work completion risk control measures and workplace procedures are followed
- 3.2** Worksite is cleaned and made safe in accordance with workplace procedures
- 3.3** Work completion is documented and appropriate 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 UEENEEN105A Install and maintain rail signalling power supplies.

Links

Companion Volume implementation guides are found in VETNet - -

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