



Australian Government

UEERS0001 Assemble and wire internal electrical rail signalling equipment

Release: 1

UEERS0001 Assemble and wire internal electrical rail signalling equipment

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 assemble and wire internal rail signalling equipment for location boxes, enclosures and equipment rooms.

It includes following workplace procedures, assembling and mounting components, performing internal wiring, terminating cables, and wiring and testing to certify 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

UEEEL0003 Arrange circuits, control and protection for general electrical installations

Competency Field

Rail Signalling

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to assemble and wire internal signalling

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

equipment

for work area are identified and applied

- 1.2 Hazards are identified, risks assessed, and control measures and workplace procedures are implemented
- 1.3 Safety hazards that have not previously been identified are noted on the job safety assessments and existing risk control measures implemented
- 1.4 Technical requirements relating to specific signalling equipment are obtained
- 1.5 Assembly and wiring are appropriately sequenced in accordance with job schedule
- 1.6 Appropriate person/s is consulted to ensure work is coordinated effectively with others involved on the worksite
- 1.7 Materials needed for assembly and wiring are obtained in accordance with workplace procedures and checked against job requirements
- 1.8 Tools, equipment, and testing devices needed to assemble and wire equipment are obtained in accordance with workplace procedures and checked for correct operation and safety
- 1.9 Rail signalling equipment is prepared for assembly and wiring in accordance with workplace procedures and relevant specifications

2 Assemble and wire internal signalling equipment

- 2.1 WHS/OHS risk control measures and workplace procedures for carrying out the work are followed
- 2.2 Equipment is assembled, wired, connected and labelled to comply with technical standards and job specification requirements
- 2.3 Risk control measures for dealing with unplanned situations are discussed with appropriate person/s and documented in job safety assessments
- 2.4 Unplanned situations are dealt with safely in a manner that minimises risk to personnel and equipment and with the approval of authorised person/s
- 2.5 Equipment is assembled, wired, connected and labelled efficiently without waste of materials or damage to

- apparatus, the surrounding environment or services using sustainable energy practices
- 3 Complete assembly and wiring of internal signalling equipment**
- 3.1** WHS/OHS work completion risk control measures and workplace procedures are followed
 - 3.2** Terminations are tested in accordance with workplace testing procedures to ensure tightness and functionality
 - 3.3** Continuity and insulation tests are carried out in accordance with workplace test procedures to ensure and verify system standards are met
 - 3.4** Wiring diagrams, quality requirements and safety issues are addressed and relevant reports/documentation are updated and completed 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 UEENEEN102A Assemble and wire internal electrical rail signalling equipment.

Links

Companion Volume implementation guides are found in VETNet - -

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