



Australian Government

UEERS0026 Maintain communications based signalling equipment

Release: 1

UEERS0026 Maintain communications based 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 maintain communications based signalling (CBS) equipment.

It includes working safely, completing equipment prechecks, maintenance and post service tasks related to communications based signalling equipment.

It covers maintenance of trackside equipment as part of communications based signalling systems.

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.

Persons achieving this competence will then need to complete equipment specific training for the relevant CBS equipment and related tools.

No other licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

UEERS0020 Apply rail signalling principles

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 maintain communications based signalling 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, workplace 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** Equipment prechecks are completed in accordance with workplace procedures
- 1.8** Authorisation to take temporarily out of service is obtained in accordance with workplace procedures

2 Maintain communications based signalling 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** Connection points are located and connection established in accordance with workplace procedures
- 2.4** Pre-service tasks and tests are completed in accordance with workplace procedures
- 2.5** Equipment faults/damage are identified using efficient fault-finding and diagnostic techniques, including fault

	indicators, error codes and maintenance records
2.6	Equipment/component abnormalities are identified, and appropriate remedial actions taken to ensure equipment conforms and performs to technical specifications
2.7	Maintenance is conducted in accordance with schedule and workplace procedures without waste of materials, damage to apparatus, the surrounding environment or services using sustainable energy practices
2.8	Methods for dealing with unplanned situations are determined on the basis of safety and specified work outcomes
3 Complete communications based signalling equipment maintenance	
3.1	WHS/OHS work completion risk control measures and workplace procedures are followed
3.2	Post-service tasks are completed in accordance with workplace procedures
3.3	Confirmation that system is functional and that no alarms are present or indicated
3.4	Equipment is taken out of service/brought back into use, as required, and documentation is completed in accordance with workplace procedures
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

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 is a new unit

Links

Companion Volume Implementation Guides are found in VETNet -

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