



Australian Government

UEERS0032 Maintain trackside signal and train protection equipment

Release: 1

UEERS0032 Maintain trackside signal and train protection equipment

Modification History

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

This unit replaces and is equivalent to UEERS0012 Install and maintain trackside signal and train protection equipment.

Modifications this release include:

- Title changed.
- Element titles and performance criteria amended to reflect title change.
- Minor amendments made to Performance Criteria text.
- Performance criteria 1.7, 2.2, 3.2 and 3.4 added.
- Performance and Knowledge Evidence updated for clarity.

Application

This unit involves the skills and knowledge required to maintain trackside signal and train protection equipment.

It includes preparing and maintaining trackside signal and train protection equipment. It also includes completing maintenance of trackside signal and train protection 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

UEERS0033 Maintain train detection equipment

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 trackside signal and train protection 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** Safety hazards that have not previously been identified are documented as part of the job safety assessments, and risk control measures are determined and implemented in consultation with appropriate person/s
- 1.4** Appropriate rail safe working person/s is consulted to ensure work can proceed without delaying or compromising rail operational safety of train movements
- 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** Authorisation to take temporarily out of service or disable systems is obtained in accordance with workplace procedures

2 Maintain trackside signal and train protection equipment

- 2.1** WHS/OHS risk control measures and workplace procedures for carrying out the 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** Signal and train protection equipment are checked in accordance with job and technical specifications
- 2.4** Sub-assemblies of signal and train protection equipment are assembled in accordance with work/job specifications and checked to confirm circuit integrity
- 2.5** Assembled sub-assemblies are inspected and tested off-site, where possible, in accordance with job and technical specifications
- 2.6** Maintenance, wiring and assembly of signal and train protection equipment are completed efficiently, without waste of materials or damage to apparatus, the surrounding environment or services using sustainable energy practices
- 2.7** Signal and train protection components and sub-assemblies are inspected, checked and installed in accordance with job specifications
- 2.8** Component and wiring test/s are conducted under live test conditions to ensure train protection equipment functions correctly
- 2.9** Methods for dealing with unplanned situations are determined on the basis of safety and specified work outcomes
- 2.10** Maintenance work is carried out in accordance with manufacturer specifications, workplace procedures and relevant industry standards
- 2.11** Appropriate operational inspection and test procedures are applied to ensure equipment and components are operational
- 2.12** Signal/s and train protection equipment are monitored, inspected and tested to ensure they operate in accordance with technical parameters specified and job specifications
- 2.13** Testing is performed efficiently, without waste of materials or damage to apparatus, the surrounding environment or services using sustainable energy practices

- | | |
|---|--|
| 3 Complete trackside signal and train protection equipment maintenance | 3.1 WHS/OHS work completion risk control measures and workplace procedures are followed |
| | 3.2 Confirmation that system is functional and that no alarms are present or indicated |
| | 3.3 Worksite is made safe in accordance with workplace safety management procedures |
| | 3.4 On-track safe working requirements are removed in accordance with workplace procedures and safety management system |
| | 3.5 Test results and documentation are completed to confirm system operational compliance to job specifications and relevant reports produced |
| | 3.6 Work completion is documented and appropriate rail safety person/s notified in accordance with workplace safe working 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 UEERS0012 Install and maintain trackside signal and train protection equipment.

Links

Companion Volume Implementation Guides are found in VETNet -

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

