



Australian Government

UEERS0012 Install and maintain trackside signal and train protection equipment

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 trackside signal and train protection equipment.

It includes preparing and installing/maintaining trackside signal and train protection equipment. It also includes completing installation/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

UEERS0013 Install and maintain train detection equipment

Competency Field

Rail Signalling

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

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| 1 Prepare to install/maintain trackside signal and train protection equipment | <ul style="list-style-type: none">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 clarified1.2 Hazards are identified, WHS/OHS risks assessed, and control measures and workplace procedures implemented in preparation for work1.3 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/s1.4 Appropriate rail safe working person/s is consulted to ensure work can proceed without delaying or compromising rail operational safety of train movements1.5 Materials needed for the installation/maintenance work are obtained in accordance with workplace procedures and checked against job specifications1.6 Tools, equipment and testing devices needed for installation/maintenance work are obtained in accordance with workplace procedures and checked for correct operation and safety |
| 2 Install/maintain trackside signal and train protection equipment | <ul style="list-style-type: none">2.1 WHS/OHS risk control measures and workplace procedures for carrying out the work are followed2.2 Signal and train protection equipment are checked in accordance with job and technical specifications2.3 Sub-assemblies of signal and train protection equipment are assembled in accordance with work/job specifications and checked to confirm circuit integrity2.4 Assembled sub-assemblies are inspected and tested off-site, where possible, in accordance with job and technical specifications2.5 Installation/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 |

- 2.6 Signal and train protection components and sub-assemblies are inspected, checked and installed in accordance with job specifications
 - 2.7 Component and wiring test/s are conducted under live test conditions to ensure train protection equipment functions correctly
 - 2.8 Methods for dealing with unplanned situations are determined on the basis of safety and specified work outcomes
 - 2.9 Installation/maintenance work is carried out in accordance with manufacturer specifications, workplace procedures and relevant industry standards
 - 2.10 Appropriate operational inspection and test procedures are applied to ensure equipment and components are operational
 - 2.11 Signal/s and train protection equipment are monitored, inspected and tested to ensure they operate in accordance with technical parameters specified and job specifications
 - 2.12 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 installation/maintenance**
- 3.1 WHS/OHS work completion risk control measures and workplace procedures are followed
 - 3.2 Worksite is made safe in accordance with workplace safety management procedures
 - 3.3 Test results and documentation are completed to confirm system operational compliance to job specifications and relevant reports produced
 - 3.4 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 UEENEEN111A 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>