



Australian Government

Assessment Requirements for UEERS0033 Maintain train detection 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.

This unit replaces and is equivalent to UEERS0013 Install and maintain train detection 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 3.3 added.
- Performance and Knowledge Evidence updated for clarity.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least two separate occasions and include:

- following, work health and safety (WHS)/occupational health and safety (OHS) and requirements, including:
 - implementing risk control measures
 - rail safe working practices
- applying workplace procedures and practices
- applying environmental protection procedures
- applying and relevant industry standards, codes and rail safety regulations
- interpreting plans and specifications correctly
- maintaining, adjusting and testing equipment
- checking that technical operational specifications are met and equipment is in compliance with work orders
- using tools and test equipment safely
- completing relevant technical reports, records and documentation
- dealing with unplanned events

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- train detection equipment maintenance, safe working practices and relevant standards, codes and regulations, including:
 - rail signalling, train detection equipment
 - train detection equipment and their components encompassing:
 - track circuits, including jointed and jointless
 - other methods of train detection
 - transmitters and receivers
 - relays
 - track shunts and other testing devices
 - overlay train detection systems
 - coded track circuits
 - diagnostics
 - operating principles and parameters encompassing:
 - interpreting circuits diagrams and special controls identified on control tables
 - normal mode operation
 - absence of train
 - presence of train
 - failure modes
 - rightside failure failsafe
 - wrongside failure
 - servicing procedures encompassing:
 - coordination/planning sequence
 - operational test procedures
 - scheduled/preventative maintenance
 - unscheduled/corrective maintenance
 - RE certification of train detection equipment using certifying procedures complying with rail operator and/or enterprise standards
- relevant manufacturer specifications and manuals
- relevant WHS/OHS legislated requirements
- relevant standards, codes, regulations and workplace policies, procedures and documentation.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in suitable workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in suitable simulated workplace

operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, facilities, equipment and personal protective equipment (PPE) currently used in industry
- resources that reflect current industry practices in relation to maintaining train detection equipment
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

Companion Volume Implementation Guides are found in VETNet -

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