



Australian Government

Assessment Requirements for UEERS0023

Inspect, test and certify rail power signal 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 UEERS0018 Test and commission rail power equipment.

Modifications this release include:

- Title changed.
- Element titles and performance criteria amended to reflect title change.
- UEERS0007 and UEERS0008 removed from prerequisites
- Minor amendments made to Performance Criteria text.
- Performance criteria 2.2 and 3.3 added.
- Essential conditions added to Range of Conditions.
- Performance and Knowledge Evidence updated for clarity.
- Minor text changes to Assessment Conditions.

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:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - implementing workplace procedures and practices
 - using risk control measures
- applying sustainable energy principles and practices
- applying rail safe working practices and relevant industry standards, codes and rail safety regulations
- following relevant codes of practice, environmental protection procedures and requirements
- reading and interpreting testing plans and specifications correctly
- inspecting, testing and certifying signalling circuits, equipment and components to meet operational and technical standards
- using effective fault diagnosis and repair/replacement techniques to specified model level
- confirming circuits, equipment and components operated within specified technical parameters
- testing equipment and instruments
- using tools correctly
- completing relevant technical reports, records and documentation.

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:

- power signalling inspecting, testing and certifying, safe working practices and relevant standards, codes and regulations, including power signalling system design, including:
 - characteristics
 - diagrams
 - specifications
- the standards and procedures associated with the use of straps and bridges
- power signalling components including:
 - types
 - testing
 - adjustments
- power signalling system certifying including:
 - requirements
 - hazards
 - procedures
 - records and reporting
- rail safe working and safety management systems
- relevant industry standards (scope of AS7716 Signalling Testing Process), codes of practice, regulations and WHS/OHS legislated requirements
- relevant manufacturer specifications and manuals
- relevant workplace 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 inspecting, testing and certifying power signalling 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>