



Australian Government

Assessment Requirements for UEERS0028 Maintain mechanical rail signalling equipment and infrastructure

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 UEERS0016 Maintain mechanical rail signalling equipment and infrastructure.

Modifications this release include:

- Minor amendments made to Performance Criteria text.
- Performance criteria 2.2 and 3.8 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 relevant codes of practice, work health and safety (WHS)/occupational health and safety (OHS) and environmental protection procedures and requirements
- implementing workplace procedures and practices
- applying sustainable energy principles and practices
- applying rail safe working practices and relevant standards, codes and rail safety regulations
- preparing rail mechanical signalling equipment and infrastructure for maintenance
- interpreting drawings, plans and specifications correctly
- ensuring safe trained movement through work area
- maintaining equipment in accordance with workplace procedures
- using chemicals and tools safely
- testing that equipment is fully functional after maintenance
- checking that technical/operational specifications are met and that equipment is in compliance with work orders
- applying effective fault diagnosis techniques
- completing rail mechanical signalling equipment and infrastructure maintenance
- completing relevant technical reports, records, documentation and follow-up work orders.

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:

- mechanical rail signalling equipment and infrastructure maintenance requirements and

techniques, safe working practices and relevant standards, codes and regulations, including:

- relevant technical manuals, manufacturer specifications and catalogues
- environmental and heritage awareness
- enterprise work activities records encompassing:
 - purpose and extent of maintaining work activities records in an enterprise
 - types of records for maintaining work activities in an enterprise
 - methods for recording and maintaining work records
 - work records required by regulation requirements
- safe working practices encompassing:
 - risk assessment and management of risk
 - hazards associated with electrical equipment and traction rail return currents
 - safety, selection, use, maintenance and care of test equipment
 - legislated requirements
- rail safe working practices encompassing:
 - rail enterprise safety standards and procedures
 - rail safe working requirements
 - possessions protection and management
- rail signalling, drawings and diagrams
- drawing types and applications encompassing:
 - drawing layouts and conventions
 - drawing symbols
 - cable and equipment schedules
- rail signalling principles - mechanical encompassing:
 - overview of mechanical rail signalling
 - purpose of elements of a mechanical rail signalling system
- rail signalling equipment servicing procedures and frequency
- components and operating principles of rail signalling:
 - mechanical equipment
 - point actuating devices
 - interlocking systems - mechanical
 - electro-pneumatic equipment
- relevant workplace policies, procedures and documentation
- operational test procedures.

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 servicing mechanical rail signalling equipment and infrastructure
- 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>