Australian Government

# Assessment Requirements for UEERS0015 Maintain electronic and microprocessor-based remote control systems

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## Modification History

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

## 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 one occasion and include:

- interpreting specifications, circuit diagrams and workplace procedures correctly
- using appropriate diagnosis and fault-finding techniques to sub-module level
- maintaining electronic switched and microprocessor-based remote control systems to operational requirements (to sub-module level)
- working efficiently and effectively
- using tools and test equipment correctly
- following relevant codes of practice, work health and safety (WHS)/occupational health and safety (OHS) and environmental protection procedures and requirements
- completing relevant technical reports, records and documentation
- dealing with unplanned events
- applying rail safe working practices and relevant industry standards, codes and rail safety regulations
- applying relevant WHS/OHS requirements, including:
  - implementing workplace procedures and practices
  - using risk control measures
- applying sustainable energy principles and practices
- completing maintenance and reporting of electronic and microprocessor-based remote control system.

## 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:

- rail signalling remote control system maintenance, safe working practices and relevant standards, codes and regulations, including:
  - maintenance principles encompassing:
    - maintenance function
    - role of maintenance department

Australian Industry Standards

- WHS/OHS requirements
  - maintenance systems encompassing:
    - maintenance terminology
    - preventative maintenance
    - predictive maintenance
    - corrective maintenance
  - data acquisition encompassing:
    - plant history cards/files
    - inspection techniques
    - predictive maintenance
    - remote visual inspection
    - non-destructive testing
    - thermography
    - vibration analysis
    - oil analysis
  - rail signalling maintenance plans encompassing:
    - characteristics
    - maintenance windows
    - required resources (labour and materials)
    - procedures and records
    - maintenance of rail signalling electronics and microprocessor-based remote control systems
    - components requiring maintenance
  - rail safe working practices encompassing:
    - rail enterprise safety standard and procedures
    - rail safe working requirements
    - possessions protection and management
- WHS/OHS requirements
- relevant job safety assessments or risk mitigation processes
- relevant manufacturer specifications
- relevant industry standards, codes of practice, regulations and WHS/OHS legislated requirements
- 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 maintaining electronic switched and microprocessor-based remote control systems
- 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