



Australian Government

Assessment Requirements for UEERS0005 Install and maintain active level crossing 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.

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:

- interpreting specifications correctly
- using appropriate fault-finding techniques
- maintaining electrically-operated level crossing equipment to operational requirements
- organising work to minimise road and rail traffic disruptions
- using tools 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 the installation/maintenance of active level crossing equipment
- installing/maintaining active level crossing equipment
- preparing to install/maintain active level crossing equipment.

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:

- active level crossing equipment installation and maintenance, safe working practices and relevant standards, codes and regulations, including:
 - rail signalling and active level crossing equipment
 - equipment and their components encompassing:

- flashing lights
- audible warning devices
- boom gate/barrier
- pedestrian gate/barrier
- relay operation
- crossing predictor
- operation alarm monitoring
- traffic light interfaces
- operating principles and parameters encompassing:
 - single line control
 - double line control
 - special controls
 - processor controls
 - remote alarm monitoring
 - failure modes
 - emergency operation
 - interpreting circuits diagrams to evaluate correct operation and relationship to other signalling circuits
 - correct operation in accordance with control and locking tables
- servicing procedures encompassing:
 - maintenance documentation
 - coordination/planning sequence
 - operational test procedures
 - scheduled/preventative maintenance
 - unscheduled/corrective maintenance
 - certification of active level crossing equipment (commission/decommission)
 - certifying procedures applicable for compliance with rail operator and/or enterprise standards
- rail safe systems of working
- safety management system
- safe working practices and relevant standards, codes and regulations
- relevant manufacturer specifications
- relevant job safety assessments or risk mitigation processes
- relevant WHS/OHS legislated requirements
- relevant workplace policies and procedures, including rail transport operator safety management system.

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 installing/maintaining active level crossing 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>