



Australian Government

Assessment Requirements for UEERS0008

Install and maintain non-vital telemetry systems

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 plans and specifications correctly
- installing/maintaining and testing of non-vital telemetry equipment in accordance with workplace procedures
- using effective and efficient diagnostic fault-finding techniques
- using resources efficiently
- repairing equipment in accordance with workplace procedures
- ensuring repaired equipment conforms to manufacturer specifications
- calibrating and using test equipment and tools correctly
- following relevant codes of practice, environmental protection procedures and requirements
- following correct liaison procedures
- 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 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
- completing maintenance of non-vital telemetry systems
- reading mimics and animated graphics.

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:

- non-vital telemetry systems installation/maintenance, safe working practices and relevant standards, codes and regulations, including:

- electronic switching encompassing:
 - devices and used for electronic switching and their switching characteristic
 - circuit configuration and switch-on, switch-off conditions
 - faults in electronic switching devices/circuits
 - typical applications of electronic switching
- using supervisory control and data acquisition systems (SCADA) encompassing:
 - SCADA system features and applications
 - industries in which SCADA systems are used
 - associate benefits of the package
 - features and facilities of different SCADA packages
 - hardware requirements
- transmission protocols encompassing:
 - carriers
 - multidrop configuration
 - time division multiplexing
 - relay and computer-based interlocking (CBI) interfaces
 - data structure
- elements, including addressing, parity, cyclic redundancy check, direction control data and indication data
- reading mimics and animated graphics
- trending
- analysis of process to select data
- viewing data and graphical representation of selected information
- trend graphs and data matching
- alarm logging
- analysing select data
- corrective action of alarm status
- safe working practices and relevant standards, codes and regulations
- relevant job safety assessments or risk mitigation processes
- relevant manufacturer specifications
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures
- servicing procedures, including:
 - maintenance documentation
 - coordination/planning sequence
 - operational test procedures
 - scheduled/preventative maintenance
 - unscheduled/corrective maintenance
 - relevant rail transport operator certifying train detection equipment (commission and

decommission) workplace 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 installing/maintaining non-vital telemetry 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>