Assessment Requirements for UEERS0003 Develop rail signalling system maintenance programs

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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
- checking that technical/operational specifications are met and that equipment is in compliance with work orders
- ensuring safe train movement through work area
- 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
- developing rail signalling equipment and infrastructure maintenance programs, including:
    - finalising rail signalling maintenance program, roster and schedule requirements.

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 maintenance program development, safe working practices and relevant standards, codes and regulations, including:
    - maintenance principles encompassing:
        - maintenance function
        - role of maintenance department
        - 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 plan development encompassing:
  - characteristics of rail signalling operation
  - assessment of failure characteristics
  - link failure characteristics to maintenance systems
  - identification of maintenance windows
  - resources
  - labour
  - materials
  - establish plan
  - implementation procedures and records
  - plan review
- relevant job safety assessments or risk mitigation processes
- relevant manufacturer specifications
- relevant rail safe working practices, industry standards, codes of practice, regulations and WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and 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 rail workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in suitable rail 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 and equipment currently used in industry
- resources that reflect current industry practices in relation to developing rail signalling maintenance programs
- 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