



Australian Government

Assessment Requirements for UEERA0041 Evaluate new and alternative technologies applicable to electrotechnology applications

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, performance criteria and range of conditions on at least one occasion and include:

- determining the extent of the evaluation
- comparing manufacturer's technical data for alternative or new technologies with proposed project specifications, budget and regulations accurately
- reporting evaluation, including recommendations and justifications for adoption or rejection of the alternative and new technologies evaluated
- dealing with unplanned events
- applying environmental and sustainable energy principles and practices
- applying relevant legislation, industry standards, codes of practice and regulations
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - applying safe working practices
 - implementing risk control measures
- conducting evaluation tests
- determining need to test or measure live work
- evaluating performance benefits and limitations of new and developed technologies for given applications
- making and documenting recommendations and justifications.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- new and alternative technology sources, processes for their adoption, safe working practices and relevant standards, codes and regulations including:
 - sources of information on alternative or new technologies:
 - industry organisations

- industry technical journals
- government and private research papers/literature
- manufacturers' bulletins
- comparison of technical data from different manufacturers
- evaluating performance benefits and limitations of new and developed technologies for given applications, encompassing:
 - capital cost-benefits
 - operations efficiency
 - risk hazardous and issues related to environmental and health and safety
 - functionality
- processes to facilitate adoption:
 - research; analyses; reporting; recommending; and utilising a range of techniques, processes and technologies
- proposed project specifications, budget and regulations
- relevant manufacturer specifications
- relevant test methods
- relevant tools, testing devices and manufacturer technical data
- relevant WHS/OHS legislated requirements, including:
 - environmental and sustainable energy principles and practices
 - risk control measures
- 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 workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in 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, equipment and personal protective equipment (PPE) currently used in industry
- 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>