



Australian Government

Assessment Requirements for UEPMNT442 Maintain wind turbine generator electrical systems

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the UEP Generation Training Package.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions on at least two separate occasions and includes:

- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) requirements including:
 - emergency procedures
 - hazard identification
 - risk control measures
 - safe working practices
- communicating with personnel
- completing work as per scheduled requirements
- conducting maintenance on Wind Turbine Generator (WTG) electrical systems
- determining work to permit requirements
- identifying new components for use
- implementing legislation, industry standards, codes of practice and regulations
- measuring, inspecting and recording Wind Turbine Generator (WTG) electrical system
- performing isolations
- planning for wind turbine generator electrical system work
- reassembling and readjusting equipment and components in wind turbine generator electrical systems
- undertaking diagnostic testing
- using manufacturers' specifications and manuals

Knowledge Evidence

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

- analysis and diagnostic methods and tools
- component identification and replacement
- isolations

- legislation, industry standards, codes of practice and regulations
- maintenance of wind turbine generator electrical systems
- manufacturers' specifications and manuals
- measurement techniques
- permit to work system
- techniques for recognising wiring failure or potential for failure of wind turbine generator system and equipment
- test requirements of wind turbine generator electrical system
- WHS/OHS legislated requirements including:
 - emergency procedures
 - risk control measures
 - hazard identification
 - safe working practices
- wind turbine generator plant and its location at site
- wind turbine generator system types and characteristics
- workplace documentation
- workplace policies and procedures

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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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.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

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 currently used in industry
- applicable documentation including workplace procedures, industry standards, 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=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>

