



Australian Government

Assessment Requirements for UEPMNT445 Diagnose and repair faults in large scale wind turbine generators

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
- determining permit to work requirements
- diagnosing wind turbine generator system faults
- gathering wind turbine generator system data
- implementing legislation, industry standards, codes of practice and regulations
- interpreting data logs and equipment error code to determine of fault
- interpreting wind turbine generator system data to establish theory about faults
- reassembling wind turbine generator system
- recording faults
- repairing wind turbine generator system faults
- replacing faulty equipment
- replacing wind turbine generator system equipment and/or components
- testing wind turbine generator system systems including pitch system, yaw system, gearbox, generator, control systems, braking and start up systems and weather monitoring systems
- 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:

- data logs and system

- diagnosis techniques for wind turbine generator system faults
- error codes
- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals
- permit to work system
- reassembly techniques for wind turbine generator system equipment and/or components
- replacement techniques for wind turbine generator system equipment and/or components
- tests for wind turbine generator systems and equipment
- types and characteristics of wind turbine generator systems
- WHS/OHS legislated requirements including:
 - emergency procedures
 - risk control measures
 - hazard identification
 - safe working practices
- wind turbine generator design and control system
- wind turbine generator system testing and function
- 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>