



Australian Government

Assessment Requirements for UEPMNT004 Diagnose and repair faults in large scale wind turbines

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the UEP Electricity Supply Industry - Generation Sector Training Package Release 2.0.

Performance Evidence

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

- 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 system faults
- gathering wind turbine system data
- complying with regulations, industry standards, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- interpreting data logs and component error code to determine fault
- interpreting wind turbine system data to establish theory about faults
- reassembling wind turbine system
- recording faults
- repairing wind turbine system faults
- replacing faulty components
- replacing wind turbine system components
- testing wind turbine systems, including pitch system, yaw system, gearbox, generator, control systems, braking and start-up systems and weather monitoring systems.

Knowledge Evidence

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

- data logs and system
- diagnosis techniques for wind turbine system faults

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