



Australian Government

Assessment Requirements for UEPMNT435 Diagnose and repair faults in wind turbine mechanical 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 using completion of work procedures
- determining cause of faults using data analysis techniques and tools
- determining permit to work requirements
- fault cause using fault finding and diagnostic techniques
- identifying and selecting materials
- implementing legislation, industry standards, codes of practice and regulations
- operating test and measurement instruments
- planning diagnosis and repair of faults in wind turbine mechanical systems work
- repairing faults using repair techniques and procedures
- using tools and equipment
- utilising technical drawings, manufacturers' specifications and manuals
- verifying faults using verification techniques and procedures finding

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:

- diagnostic and fault finding techniques
- isolations

- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals
- measuring equipment
- operational requirements of equipment and materials required
- permit to work system
- technical drawings
- typical arrangements of wind farm power production plant
- verification and repair techniques
- WHS/OHS legislated requirements including:
 - emergency procedures
 - hazard identification
 - risk control measures
 - safe working practices
- wind farm principles
- wind turbine mechanical system and equipment location
- wind turbine 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.education.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>