



Australian Government

Assessment Requirements for UEPMNT434 Diagnose and repair faults in wind turbine control 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:

- analysing data using data analysis techniques and tools
- 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 cause of wind turbine control system fault using diagnostic and fault finding techniques and procedures
- determining permit to work requirements
- identifying and finding wind turbine control system fault
- implementing legislation, industry standards, codes of practice and regulations
- planning diagnosis and repair of faults in wind turbine control systems work
- repairing wind turbine control system fault using repair techniques and procedures completing and documenting work
- selecting resources and materials
- using manufacturers' specifications and manuals
- utilising test and measurement instruments
- verifying wind turbine control system fault using verification techniques
- working with tools and equipment

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 methods and techniques

- equipment and materials
- fault verification methods and techniques
- isolations
- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals
- operational requirements for equipment
- permit to work system
- repair methods and techniques
- test and measurement instruments and techniques
- typical arrangements of wind farm power production plant
- wind farm control systems and equipment including wind generator control system
- wind generation plant and equipment, and its location
- WHS/OHS legislated requirements including:
 - emergency procedures
 - hazard identification
 - risk control measures
 - safe working practices
- 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>