



Australian Government

Assessment Requirements for UEPMNT317 Diagnose and repair faults in mechanical equipment

Release: 2

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Modification History

Release 2. Minor release to update superseded pre-requisite units.

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
 - safe working practices
 - using risk control measures
- communicating with personnel
- completing work as per scheduled requirements
- determining cause of mechanical equipment fault
- determining permit to work requirements
- finding mechanical equipment fault using fault finding and diagnostic techniques
- identifying equipment and materials
- interpreting manufacturers' specifications and manuals
- locating technical drawings and plans
- planning for diagnosing and repairing faults in mechanical equipment work
- repairing mechanical equipment fault using repairing techniques and procedures
- utilising levelling and alignment techniques
- utilising test and measurement instruments
- verifying mechanical equipment 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:

- equipment and materials
- fault finding and diagnostic techniques
- generation plant and equipment, its location and operation
- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals
- performance, characteristics and function of mechanical equipment
- permit to work system
- repair techniques
- technical drawings and plans
- typical arrangements of power production plant
- WHS/OHS legislated requirements including:
 - emergency procedures
 - hazard identification
 - safe working practices
 - using risk control measures
- 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>