



Australian Government

Assessment Requirements for UEPMNT318 Conduct generator mechanical maintenance

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 Minor release to update superseded pre-requisite units.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:
 - ascertaining hazardous materials
 - emergency procedures
 - risk control measures
 - safe working practices
 - assembling and disassembling equipment
 - balancing, levelling and aligning
 - communicating with personnel
 - completing work as per scheduling requirements
 - conducting transmissions and/or couplings
 - determining permit to work
 - identifying components including recognising worn, damaged or faulty components
 - interpreting technical drawing, manufacturers' specifications and manuals
 - performing generator mechanical maintenance using overhaul and maintenance techniques and procedures
 - planning for generator mechanical maintenance work
 - removing generator mechanical associated equipment using removal techniques and procedures
 - replacing generator mechanical associated equipment using replacement techniques and procedures
 - undertaking isolations
 - using tools and measuring equipment
 - utilising assessment and data analysis techniques and tools
 - working with diagnosis and testing techniques
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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:

- advanced balancing, levelling and aligning techniques
- construction of mechanical generators
- diagnostic and testing techniques
- generator mechanical maintenance
- isolations
- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications
- measuring equipment
- permit to work system
- plant and equipment and its location
- technical drawings and plans
- tools
- transmissions and couplings
- typical arrangements of power production plant
- WHS/OHS legislated requirements including:
 - ascertaining hazardous materials
 - emergency procedures
 - 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
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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>