



Australian Government

Assessment Requirements for UEPMNT404 Maintain complex mechanical pumps

Release: 2

Assessment Requirements for UEP MNT404 Maintain complex mechanical pumps

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 Minor release to update superseded pre-requisite units.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:

- analysing using data analysis techniques
- 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 as per scheduled requirements
- determining permit to work requirements
- dismantling and reassembling techniques for maintaining complex mechanical valves
- implementing legislation, industry standards, codes of practice and regulations
- interpreting manufacturers' specifications and manuals
- levelling and aligning with approved techniques
- maintaining complex mechanical pumps using maintenance techniques and procedures
- operating with torque techniques
- planning for maintenance of complex mechanical pump work
- reading technical drawings and data
- recognising worn or damaged components
- removing complex mechanical pumps for maintenance using removal techniques
- replacing or installing complex mechanical pumps using installation techniques and procedures
- selecting materials and components
- testing using diagnostic and testing techniques
- undertaking isolations and torqueing
- using tools

- utilising precision measuring equipment
- working with and applying fluid dynamics principles

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:

- analysis and data recording techniques
- diagnostic and testing techniques
- fluid dynamics
- isolations
- legislation, industry standards, codes of practice and regulations
- level and alignment techniques
- maintenance of complex mechanical pumps generation plant and equipment, its location and operation
- manufacturers' specifications and manuals
- materials and components of pumps
- permit to work system
- precision measuring equipment
- technical drawings and data
- tools
- torque techniques
- typical arrangements of power production plant
- WHS/OHS legislated requirements including:
 - emergency procedures
 - risk control measures
 - hazard identification
 - 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.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>