



Australian Government

Assessment Requirements for UEPMNT406 Install and maintain a steam turbine

Release: 1

Assessment Requirements for UEPMNT406 Install and maintain a steam turbine

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
 - risk control measures
 - safe working practices
- communicating with personnel
- completing work as per scheduled requirements
- determining permit to work requirements
- disassembling steam turbine using disassembly techniques
- identifying components
- identifying hazardous materials implementing legislation, industry standards, codes of practice and regulations
- inspecting steam turbine components using inspection and fault diagnosis techniques
- interpreting manufacturers' specifications and manuals
- planning for installation and maintenance of steam turbine work
- reassembling turbine using reassembly techniques
- recognising worn, damaged or faulty components
- repairing steam turbine or components using repair and maintenance techniques
- utilising diagnosing and testing equipment including precise measuring 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:

- data recording techniques
- diagnostic and testing techniques
- disassembly and reassembly methods and techniques

- inspection techniques
- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals
- permit to work system
- power generation plant and equipment, its location and operation
- precision measuring equipment
- repair and maintenance methods and techniques
- steam turbine thermal and mechanical operations inclusive of steam turbine auxiliary systems
- typical arrangements of power production plant
- WHS/OHS legislated requirements including:
 - emergency procedures
 - identifying hazardous materials
 - 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>

