



Australian Government

Assessment Requirements for UEPMNT408 Install hydro turbines

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 Minor release to update superseded pre-requisite units.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 maintenance and installation techniques
- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) requirements including:
 - emergency procedures
 - identifying hazardous materials
 - risk control measures
 - safe working practices
- communicating with personnel
- completing work as per scheduled requirements
- determining permit to work requirements
- diagnosing and testing using precision measuring equipment
- disassembling hydro turbine
- identifying components
- implementing legislation, industry standards, codes of practices and regulations
- inspecting hydro turbine components
- interpreting manufacturers' specifications and manuals
- performing isolations
- planning for installation of hydro turbine work
- reassembling hydro turbine
- recognising worn, damaged or faulty components
- repairing hydro turbine or components using replacement techniques
- using drawings and data

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 test techniques
- hydro turbine types and characteristics
- installation and maintenance techniques
- isolations
- legislation, industry standards, codes of practices and regulations
- manufacturers' specifications and manuals
- permit to work system
- power generation plant and equipment, its location and operation
- technical drawings
- 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.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>