



**Australian Government**

# **Assessment Requirements for UEPMNT314 Maintain hydro turbines**

**Release: 1**

# Assessment Requirements for UEPMNT314 Maintain hydro turbines

## 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
  - identifying hazardous materials
  - safe working practices
  - using risk control measures
- communicating with personnel
- completing work as per scheduling requirements
- determining permit to work requirements
- diagnosing and testing hydro turbines and components
- disassembling a hydro turbine using utilising removal techniques and procedures inspecting hydro turbine components including selecting and using components
- interpreting manufacturers' specifications and manuals
- maintaining hydro turbines using overhaul, maintenance and replacement techniques and procedures
- planning for hydro turbine maintenance work
- recognising worn, damaged or faulty components
- repairing hydro turbines and components
- using precision measuring equipment
- working with tools

## 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

- hydro turbines supporting equipment
- hydro turbines types and characteristics
- isolations
- legislation, industry standards, codes of practice and regulations
- maintenance of hydro turbines
- manufacturers' specifications and manuals
- permit to work system
- power generation plant and equipment and its location
- precision measuring equipment
- tools
- typical arrangements of hydro power production plant
- WHS/OHS legislated requirements including:
  - emergency procedures
  - identifying hazardous materials
  - 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>

