



**Australian Government**

**Assessment Requirements for UEPOPS442  
Monitor and coordinate the operation of a  
combined cycle gas turbine unit**

**Release: 1**

# **Assessment Requirements for UEPOPS442 Monitor and coordinate the operation of a combined cycle gas turbine unit**

## **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:

- analysing generator and excitation system and/or combined cycle plant for faults using data analysis techniques and tools
- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) requirements including
  - emergency procedures
  - risk control measures
  - safe working practices
- communicating with personnel
- controlling power generation operations of combined cycle plant and equipment
- coordinating operation of interacting generator and excitation systems
- identifying combined cycle plant status
- implementing legislation, industry standards, codes of practice and regulations
- interpreting manufacturers' specifications and manuals
- maintaining generator unit integrity
- monitoring generator and excitation system and/or combined cycle plant
- operating heat recovery steam generator
- organising resources
- planning for combined cycle plant operation
- preparing combined cycle plant and/or equipment for operation
- responding to abnormal combined cycle plant operating conditions
- testing generator and excitation system and/or combined cycle plant operation using diagnostic and testing techniques
- working with permit to work system

## **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:

- combined cycle plant and equipment, its location and operating parameters
- combined cycle plant status
- combined cycle system components and interactions including generator and system stability
- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals
- permit to work system
- potential resources
- steam and gas turbines and generators
- types and characteristics of heat recovery steam generators
- typical arrangements of power production plant
- WHS/OHS legislated requirements including
  - 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.

As a minimum, assessment must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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>

