



Australian Government

Assessment Requirements for UEPOPS060 Monitor and coordinate the operation of a combined cycle gas turbine unit

Release: 1

Assessment Requirements for UEPOPS060 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 Electricity Supply Industry - Generation Sector Training Package Release 2.0.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria on at least two separate occasions and include:

- analysing generator and excitation system and 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 regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- interpreting manuals
- maintaining generator unit integrity
- monitoring generator and excitation system and combined cycle plant
- operating heat recovery steam generator (HRSG)
- organising resources
- planning for combined cycle plant operation
- preparing combined cycle plant and equipment for operation
- responding to abnormal combined cycle plant operating conditions
- testing generator and excitation system and 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 and performance criteria and include knowledge of:

- arrangements of power production plant
- combined cycle plant and equipment, location and operating parameters
- combined cycle plant status
- combined cycle system components and interactions, including generator and system stability
- manuals
- permit to work system
- potential resources
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- steam and gas turbines and generators
- types and characteristics of HRSG
- WHS/OHS requirements, including
 - emergency procedures
 - risk control measures
 - safe working practices
- workplace documentation
- workplace policies and procedures.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

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.

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 (PPE) currently used in industry
- applicable documentation, including workplace procedures, 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>

