



**Australian Government**

# **Assessment Requirements for UEPOPS457 Control electrical energy production**

**Release: 1**

# Assessment Requirements for UEPOPS457 Control electrical energy production

## 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 electrical energy production plant faults using diagnostic and testing techniques
- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) requirements including:
  - emergency procedures
  - risk control measures
  - safe working practices
- completing documentation
- controlling generation of electrical energy production
- directing the operation of interacting systems, electrical energy production plant and equipment
- identifying electrical energy production plant status
- implementing legislation, industry standards, codes of practice and regulations
- interpreting manufacturers' specifications and manuals
- maintaining generator unit integrity
- monitoring electrical energy production unit operations
- operating generator and excitation system
- organising resources
- planning for electrical energy production plant operation
- reviewing electrical energy production plant operation using data analysis techniques and tools
- undertaking corrective actions

## 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:

- analysis of electrical energy production plant faults

- control of electrical energy generation production
- electrical energy production plant and equipment, its location and operating parameters
- electrical energy production plant operation monitoring
- electrical energy production unit operations
- generator and system stability including system components and interactions
- generator excitation and cooling system types and characteristics
- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals
- operation of generator and excitation systems
- typical arrangements of power generating 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.

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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>