



Australian Government

UEPOPS346 Conduct non-routine operational testing

Release: 1

UEPOPS346 Conduct non-routine operational testing

Modification History

Release 1. This is the first release of this unit of competency in the UEP Generation Training Package.

Application

This unit involves the skills and knowledge required to conduct testing of power generation plant and associated equipment which may be of a non-routine nature.

An operational check is the verification that a group of components are safely working together. Operational checks consist of running in-service electrical plant to ensure that all the systems function together.

Competency in this unit requires the ability to plan for plant in-service checks, carry out in-service electrical checks, carry out corrective actions and complete work. Individuals will, in general, work as an operator in a power generation facility.

Power generation plant operators are typically trained and authorised to isolate, prepare plant and issue permits to work.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Note: Workplace practice

The application of the skills and knowledge described in this unit may require a licence or training permit to practice in the workplace where work is carried out on gas and electrical installations. Additional conditions may apply under state and territory legislative and regulatory licensing requirements.

Pre-requisite Unit

There are no prerequisite units.

Competency Field

Operations

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Prepare for testing

- 1.1 Safety issues and Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) regulations are identified, in accordance with workplace procedures
- 1.2 Operational test requirements are identified, in accordance with workplace procedures
- 1.3 Operational test procedures are determined and monitoring equipment requirements are identified, in accordance with workplace procedures and testing objectives
- 1.4 Access to power generating plant is determined, in accordance with workplace procedures

2 Perform non-routine testing

- 2.1 Operational testing is performed, in accordance with workplace procedures, industry standards and code of practice
- 2.2 Isolations are confirmed, where appropriate, in accordance with workplace procedures
- 2.3 Power generating plant is observed and corrective action is taken, in accordance with workplace procedures, when response does not meet with operating parameters, plant integrity or personnel safety
- 2.4 Operational testing is completed and power generating plant is returned to required operational status, in accordance with workplace procedures

3 Complete work

- 3.1 Appropriate personnel are notified of completion of testing, in accordance with workplace procedures
- 3.2 Power generating plant problems or abnormalities are reported, in accordance with workplace procedures
- 3.3 Operational test results are interpreted and documented, in accordance with workplace procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS346B Conduct non-routine operational testing.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>

Assessment Requirements for UEPOPS346 Conduct non-routine operational testing

Modification History

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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
 - risk control measures
 - safe working practices
- communicating with personnel
- completing work
- conducting non-routine operational testing using testing techniques and procedures
- identifying power generating plant status
- implementing legislation, industry standards, codes of practice and regulations
- locating power generating plant and equipment
- preparing for testing
- recognising abnormal power generating plant operating conditions
- restoring normal power generating plant operating conditions
- using testing equipment
- utilising data analysis techniques and tools
- 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:

- legislation, industry standards, codes of practice and regulations
- operational requirements of power generating plant and/or associated equipment
- permit to work system
- power generating plant and equipment, its location and operating parameters
- power generating plant status

- testing procedures and techniques
- testing techniques and procedures
- 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.

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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

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