



Australian Government

UEPOPS371 Carry out operational checks on in-service electrical plant

Release: 1

UEPOPS371 Carry out operational checks on in-service electrical plant

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 operational checks on in-service electrical plant.

Operational maintenance checks need to be undertaken regularly to ensure the smooth and efficient operation of all in-service electrical plant in the power generation facility.

Competency in this unit requires the ability to plan, carry out in-service electrical checks on electrical plant and completion of work. Individuals will, in general, work under supervision, in a power generation facility as an operator.

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 Plan for electrical plant in-service checks

- 1.1** Safety issues are identified, in accordance with Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) legislative requirements, industry standards and workplace procedures
- 1.2** Work, electrical plant and resource requirements are identified from relevant work orders and documentation, in accordance with workplace procedures
- 1.3** Electrical plant status and work requirements are confirmed with appropriate personnel or by site inspection, in accordance with workplace procedures
- 1.4** Equipment is checked for correct calibration and operation in accordance with workplace procedures
- 1.5** Correct size, type and quantity of materials and components are obtained and inspected for compliance with job specification, in accordance with workplace procedures
- 1.6** Potential hazards are identified and risk control measures are implemented in accordance with the workplace procedures,
- 1.7** Pre-access checks are carried out, in accordance with workplace procedures

2 Carry out in-service electrical checks

- 2.1** Electrical plant is operated, in accordance with workplace procedures and manufacturers' recommendations
- 2.2** Electrical plant checks are monitored, in accordance with workplace procedures, to detect deviations from normal operation
- 2.3** Electrical plant integrity and personnel safety are maintained, in accordance with workplace procedures, and through consultation with appropriate personnel and technical and operational documentation

3 Complete work

- 3.1** Electrical plant control measures are returned to required operational status on completion of checks, in

accordance with workplace procedures

- 3.2 Appropriate personnel are notified of completion of work, in accordance with workplace procedures
- 3.3 Electrical plant problems or abnormalities are reported in accordance with workplace procedures
- 3.4 Operational check results are 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 UEPOPS371A Carry out operational checks on in-service electrical plant.

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 UEPOPS371 Carry out operational checks on in-service electrical plant

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) legislated requirements including:
 - emergency procedures
 - risk control measures
 - safe working practices
- carrying out operational checks on in-service electrical plant
- communicating with personnel
- completing documentation and reporting on electrical plant using recording procedures
- identifying electrical plant status
- implementing legislation, industry standards, codes of practice and regulations
- interpreting electrical plant manufacturers' specifications and manuals
- interpreting remote indication of electrical plant status and condition
- maintaining electrical plant integrity
- preparing and planning electrical plant and equipment
- recognising abnormal electrical plant operating conditions using data acquisition 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:

- electrical plant and equipment, its location and operating parameters
- electrical plant status
- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals
- operational checks on in-service electrical plant

- permit to work system
- typical arrangements of power production plant
- WHS/OHS legislated requirements including:
 - emergency procedures
 - risk control measures
 - safe working practices
- workplace policies and procedures
- workplace documentation

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

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