



Australian Government

UEPOPS004 Carry out operational checks on in-service electrical plant

Release: 1

UEPOPS004 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 Electricity Supply Industry – Generation Sector Training Package Release 2.0.

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 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.

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 Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

1 Plan for electrical plant in-service checks

- 1.1** Work health and safety (WHS)/occupational health and safety (OHS) regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, environmental requirements and workplace procedures are identified, applied and monitored
- 1.2** Work and resource requirements are identified from relevant personnel and documentation in accordance with workplace procedures
- 1.3** Electrical plant status and work requirements are confirmed with relevant personnel and 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 work requirements 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 manufacturers' recommendations and specifications, and workplace procedures
- 2.2** Electrical plant checks are monitored to detect deviations from normal operation in accordance with workplace procedures
- 2.3** Electrical plant integrity and personnel safety are maintained through consultation with relevant personnel, technical and operational documentation in accordance with workplace procedures

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 Relevant 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 UEP Electricity Supply Industry – Generation Sector Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS371 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 UEPOPS004 Carry out operational checks on in-service electrical plant

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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 and performance criteria 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 regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- interpreting 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 and performance criteria and include knowledge of:

- arrangements of power production plant
- electrical plant and equipment, location and operating parameters
- electrical plant status
- manuals
- operational checks on in-service electrical plant

- permit to work system
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- WHS/OHS requirements, including:
 - emergency procedures
 - risk control measures
 - safe working practices
- workplace policies and procedures
- workplace documentation.

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

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