



Australian Government

UEPOPS013 Conduct operational checks and carry out corrective action on in-service electrical plant

Release: 1

UEPOPS013 Conduct operational checks and carry out corrective action 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 and carry out corrective actions on in-service electrical plant.

An operational check is the verification that a group of components or units are working together to accomplish a single objective. An operational check consists 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 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 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 in-service 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, operation and materials are obtained and inspected for compliance with job specification in accordance with workplace procedures
- 1.5** Potential hazards are identified, and risk control measures are selected in accordance with the workplace procedures
- 1.6** Pre-access checks of electrical in-service plant are carried out in accordance with workplace procedures

2 Carry out in-service electrical checks

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

3 Carry out corrective actions

- 3.1** Corrective actions are identified after analysing electrical in-service plant operations in accordance with manufacturers' recommendations and specifications, and workplace procedures

- 3.2** Isolations are confirmed in accordance with workplace procedures
 - 3.3** Equipment for use in conducting operational checks is modified using relevant plans, drawings and manuals in accordance with workplace procedures
 - 3.4** Corrective actions are carried out on electrical in-service plant without damage and loss to other plant in accordance with workplace procedures
 - 3.5** Modified electrical in-service plant is set up to meet operational parameters in accordance with manufacturers' recommendations and specifications, and workplace procedures
 - 3.6** Final electrical in-service plant inspection is performed in accordance with workplace procedures
- 4 Complete work**
 - 4.1** Operational checks and corrective actions are completed, and electrical in-service plant is returned to operational status in accordance with workplace procedures
 - 4.2** Relevant personnel are notified of work completion in accordance with workplace procedures
 - 4.3** Electrical in-service plant problems and corrective actions are reported 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 UEPOPS452 Conduct operational checks and carry out

corrective action 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 UEPOPS013 Conduct operational checks and carry out corrective action on in-service electrical plant

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 and performance criteria on at least two separate occasions and include:

- applying work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - emergency procedures
 - risk control measures
 - safe working practices
- carrying out in-service electrical checks
- communicating with personnel
- completing work
- determining and completing corrective actions using data analysis techniques and tools
- finalising documentation using recording procedures
- identifying electrical in-service plant status
- implementing regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- interpreting power generation plant drawings and manuals
- maintaining electrical in-service plant integrity
- performing isolations
- planning for electrical in-service plant checks
- preparing electrical in-service plant or equipment for operational check
- recognising abnormal electrical in-service plant operating conditions
- recognising remote indication of plant status and conditions
- 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 in-service plant and equipment, location and operating parameters
- electrical in-service plant drawings
- electrical in-service plant status
- isolations
- manuals
- modification techniques
- 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 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

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