



Australian Government

UEPOPS014 Conduct operational checks on in-service mechanical plant

Release: 1

UEPOPS014 Conduct operational checks on in-service mechanical 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 mechanical plant. Mechanical plant refers to the infrastructure used in the operation and maintenance of power generating facilities.

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

Competency in this unit requires the ability to plan for plant in-service checks, carry out in-service mechanical checks 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 mechanical 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** In-service mechanical 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 and materials or components are obtained and inspected in accordance with workplace procedures
- 1.5** Potential hazards are identified, and risk control measures are selected in accordance with workplace procedures
- 1.6** Pre-access checks on in-service mechanical plant are carried out in accordance with workplace procedures

2 Carry out in-service mechanical plant check

- 2.1** In-service mechanical plant is operated in accordance with manufacturers' recommendations and specifications, and workplace procedures
- 2.2** In-service mechanical plant checks are monitored and observed to detect deviations from normal operation in accordance with workplace procedures,
- 2.3** Corrective actions are taken to rectify in-service mechanical plant abnormalities in accordance with manufacturers' recommendations and specifications, and workplace procedures
- 2.4** In-service mechanical plant checks are performed in accordance with workplace procedures
- 2.5** In-service mechanical plant integrity and personnel safety are maintained in consultation with personnel and technical and operational documentation in accordance with workplace procedures

3 Complete work

- 3.1 In-service mechanical plant checks are completed and control measures are returned to required operational status in accordance with workplace procedures
- 3.2 Relevant personnel are notified of completion of work in accordance with workplace procedures
- 3.3 In-service mechanical plant problems and abnormalities are reported in accordance with workplace procedures
- 3.4 In-service mechanical plant 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 UEP Electricity Supply Industry – Generation Sector Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS352 Conduct operational checks on in-service mechanical 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 UEPOPS014 Conduct operational checks on in-service mechanical 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 include:

- applying work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - emergency procedures
 - risk control measures
 - safe working practices
- assessing operation of power generating plant
- carrying out in-service mechanical plant check
- communicating with personnel
- completing work
- finding faults, including leaks and corrosion
- implementing regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- inspecting of in-service mechanical plant equipment associated with electricity generating plant
- planning for in-service mechanical plant in-service check
- undertaking minor performance checking and testing
- utilising manuals
- 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:

- assessment of operation of electrical plant
- inspection of electrical plant equipment
- manuals
- minor performance checking and testing, including fault finding leaks and corrosion
- 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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