



Australian Government

UEPOPS069 Operate air conditioning plant

Release: 1

UEPOPS069 Operate air conditioning 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 operate and inspect an air conditioning plant.

Air conditioning in power generation facilities refers to systems that cool air and remove humidity from areas filled with heat producing plant and equipment. A complete system of heating, ventilation, and air conditioning is referred to as heating, ventilation and air conditioning (HVAC).

Competency in this unit requires the ability to plan and prepare work; operate, test, analyse and report on air conditioning plant and complete all documentation. 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

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

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| 1 Plan and prepare work | 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 requirements are identified from relevant personnel and documentation in accordance with workplace procedures |
| | 1.3 Documentation to determine air conditioning plant status is assessed and evaluated in accordance with workplace procedures |
| | 1.4 Inspection for service is carried out in accordance with site requirements workplace procedures |
| | 1.5 Air conditioning plant operational prerequisites are established in accordance with manufacturers' recommendations and specifications, and workplace procedures |
| | 1.6 Sequence for recommissioning of air conditioning plant is determined in accordance with workplace procedures |
| 2 Conduct operation of air conditioning plant | 2.1 Air conditioning plant is operated in accordance with manufacturers' recommendations and specifications, and workplace procedures |
| | 2.2 Air conditioning plant is monitored and observed to detect deviations from normal operating conditions in accordance with workplace procedures |
| | 2.3 Corrective actions are taken to rectify air conditioning plant abnormalities in accordance with workplace procedures |
| | 2.4 Air conditioning plant to be removed from service is identified and removed in accordance with workplace procedures |
| | 2.5 Corrective actions are taken when abnormalities are identified during removal of air conditioning plant from service in accordance with workplace procedures |
| 3 Test plant operation | 3.1 Tests are performed on air conditioning plant in accordance with workplace procedures |

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| | 3.2 | Air conditioning plant is observed for operational response in accordance with workplace procedures |
| | 3.3 | Air conditioning plant is returned to required operational status upon completion of testing in accordance with workplace procedures |
| 4 Analyse plant faults | 4.1 | Causes of abnormal air conditioning plant operating conditions are identified by analysing technical and operational information in accordance with workplace procedures |
| | 4.2 | Air conditioning plant integrity and personnel safety is maintained through consultation with relevant personnel and technical and operational documentation in accordance with workplace procedures |
| 5 Monitor and inspect plant | 5.1 | Air conditioning plant to be monitored or inspected is physically identified in accordance with workplace procedures |
| | 5.2 | Air conditioning plant is monitored and/or inspected for normal operation and to detect deviations in accordance with workplace procedures |
| | 5.3 | Relevant personnel are notified when defects are detected in accordance with workplace procedures |
| 6 Complete documentation | 6.1 | Air conditioning plant problems, movements and status are reported in accordance with workplace procedures |
| | 6.2 | Documentation is updated 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 UEPOPS243 Operate air conditioning 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 UEPOPS069 Operate air conditioning 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) regulations, including:
 - emergency procedures
 - risk control measures
 - safe working practices
- communicating with personnel
- complying with regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- operating air conditioning plant including:
 - applying permit to work system
 - completing documentation
 - interpreting technical drawings and manuals
 - monitoring and inspecting air conditioning plant
 - planning air conditioning work
 - reporting on air conditioning plant status
 - testing air conditioning plant using diagnostic and data analysis techniques
 - using manuals
 - utilising measuring and testing instruments to identify faults and abnormalities.

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:

- air conditioning plant and equipment, location and operating parameters
- air conditioning plant operations
- arrangements of power production plant
- manuals

- permit to work system
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- safety and hazard precautions associated with air conditioning plant
- test and fault-finding techniques
- WHS/OHS regulations, including:
 - risk control measures
 - safe working practices
 - emergency procedures
- 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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