



Australian Government

UEPOPS087 Operate and monitor compressed gas systems

Release: 1

UEPOPS087 Operate and monitor compressed gas systems

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 compressed gas systems, excluding air steam.

Compressed gas is gas contained under pressure, usually in a cylinder. A compressed gas system in a power generation facility will consist of a bulk compressed gas supply system rather than individual cylinders.

Competency in this unit requires the ability to plan work, operate compressed gas system plant, test compressed gas system plant, analyse compressed gas system plant faults, monitor and inspect compressed gas system plant, and complete all documentation. Individuals will, in general, work under supervision, in a power generation facility as a maintenance 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 | <ul style="list-style-type: none">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 monitored1.2 Work requirements are identified from relevant personnel and documentation in accordance with workplace procedures1.3 Documentation to determine compressed gas system plant status is assessed and evaluated in accordance with workplace procedures1.4 Inspection for compressed gas system plant service is carried out in accordance with manufacturers' recommendations and specifications, and workplace procedures1.5 Compressed gas system plant operational prerequisites are established in accordance with manufacturers' recommendations and specifications, and workplace procedures1.6 Sequence for recommissioning of compressed gas system plant is determined in accordance with workplace procedures |
| 2 Operate compressed gas system plant | <ul style="list-style-type: none">2.1 Compressed gas system plant is operated in accordance with manufacturers' recommendations and specifications, and workplace procedures2.2 Compressed gas system plant is monitored and observed to detect deviations from normal operating conditions in accordance with workplace procedures2.3 Corrective actions are taken to rectify compressed gas system plant abnormalities in accordance with workplace procedures2.4 Compressed gas system plant is identified and removed from service in accordance with workplace procedures2.5 Corrective actions are taken when compressed gas system plant abnormalities are identified during removal from service in accordance with workplace procedures |
| 3 Test compressed gas | <ul style="list-style-type: none">3.1 Operational tests are performed in accordance with |

system plant operation		workplace procedures
	3.2	Compressed gas system plant is observed for correct operational response in accordance with workplace procedures
	3.3	Compressed gas system plant is returned to required operational status upon completion of test in accordance with workplace procedures
4 Analyse compressed gas system plant faults	4.1	Causes of abnormal compressed gas system plant operating conditions are identified by analysing technical and operational information in accordance with workplace procedures
	4.2	Compressed gas system plant integrity and personnel safety is maintained in consultation with relevant personnel and technical and operational documentation in accordance with workplace procedures
5 Monitor and inspect compressed gas system plant	5.1	Compressed gas system plant is monitored and inspected for normal operation and to detect deviations in accordance with workplace procedures
	5.2	Relevant personnel are notified when defects are detected in accordance with workplace procedures
6 Complete documentation	6.1	Compressed gas system 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 UEPOPS318 Operate and monitor compressed gas systems.

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 UEPOPS087 Operate and monitor compressed gas systems

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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:

- analysing compressed gas systems plant faults using data analysis techniques and tools
- applying work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - emergency procedures
 - risk control measures
 - safe work practices
- communicating with personnel
- completing documentation using recording procedures
- identifying compressed gas system plant status
- implementing regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- interpreting manuals
- monitoring and inspecting compressed gas systems plant operation
- operating compressed gas system plant
- organising resources
- planning and preparing work
- preparing compressed gas system plant and equipment for operation
- recognising and responding to abnormal compressed gas system plant operating conditions
- testing compressed gas system plant operationally using diagnostic and testing techniques
- 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
- compressed gas system plant and equipment, location and operating parameters
- compressed gas system plant status

- manuals
- 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 work 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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