



**Australian Government**

# **UEPOPS320 Operate and monitor compressed air systems**

**Release: 1**

# UEPOPS320 Operate and monitor compressed air systems

## Modification History

**Release 1.** This is the first release of this unit of competency in the UEP Generation Training Package.

## Application

This unit involves the skills and knowledge required to operate compressed air systems.

Compressed air is defined as air kept under a pressure that is greater than the atmospheric pressure. Compressed air is critical to the operation of plant in power generating facilities, such as air operated control valves and fabric filter cleaning systems.

Competency in this unit requires the ability to plan work, operate compressed air system plant, test compressed air system plant, analyse compressed air system plant faults, monitor and inspect compressed air system plant and the completion of all documentation. Individuals will, in general, work under supervision, in a power generating facility as an operator.

Power generation plant operators are typically 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.

### **Note: Workplace practice**

The application of the skills and knowledge described in this unit may require a licence or training permit to practice in the workplace where work is carried out on gas and electrical installations. Additional conditions may apply under state and territory legislative and regulatory licensing requirements.

## Pre-requisite Unit

There are no prerequisites 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.

#### 1 Plan and prepare work

- 1.1 Safety issues related to operating and monitoring compressed air system plant are identified, in accordance with workplace procedures and Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) regulations and legislative requirements
- 1.2 Work requirements are identified, in accordance with workplace procedures, from relevant personnel and documentation
- 1.3 Documentation to determine compressed air system plant status is assessed and evaluated, in accordance with workplace procedures
- 1.4 Inspection and field preparation for compressed air system plant service are carried out, in accordance with workplace procedures and manufacturers' operational requirements
- 1.5 Compressed air system plant operational prerequisites are established, in accordance with workplace procedures and manufacturers' requirements
- 1.6 Sequence for recommissioning of compressed air system plant is determined, in accordance with workplace procedures and site requirements

#### 2 Operate compressed air system plant

- 2.1 Compressed air system plant is operated, in accordance with workplace procedures and manufacturers' operating recommendations
- 2.2 Compressed air system plant is monitored and observed, in accordance with workplace procedures, to detect deviations from normal operating conditions
- 2.3 Corrective actions are taken to rectify compressed air system plant abnormalities, in accordance with workplace procedures
- 2.4 Compressed air system plant is identified and removed from service, in accordance with workplace procedures

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|----------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                          | <b>2.5</b> | Corrective actions are taken, in accordance with workplace procedures when compressed air system plant abnormalities are identified during removal from service                                               |
| <b>3 Test compressed air system plant operation</b>      | <b>3.1</b> | Operational tests are performed, in accordance with workplace procedures                                                                                                                                      |
|                                                          | <b>3.2</b> | Compressed air system plant is observed for correct operational response, in accordance with workplace procedures                                                                                             |
|                                                          | <b>3.3</b> | Corrective action is taken, in accordance with workplace procedures, when response does not meet with documentation, compressed air system plant integrity or personnel safety requirements                   |
|                                                          | <b>3.4</b> | Compressed air system plant is returned to required operational status upon completion of testing, in accordance with workplace procedures                                                                    |
| <b>4 Analyse compressed air system plant faults</b>      | <b>4.1</b> | Causes of abnormal compressed air system plant operating conditions are identified, in accordance with workplace procedures, and by analysing technical and operational information                           |
|                                                          | <b>4.2</b> | Corrective action is taken, in accordance with workplace procedures                                                                                                                                           |
|                                                          | <b>4.3</b> | Compressed air system plant integrity and personnel safety is maintained, in accordance with workplace procedures, and in consultation with appropriate personnel and technical and operational documentation |
| <b>5 Monitor and inspect compressed air system plant</b> | <b>5.1</b> | Compressed air system plant to be monitored and/or inspected is physically identified, in accordance with workplace procedures                                                                                |
|                                                          | <b>5.2</b> | Compressed air system plant is monitored and/or inspected for normal operation or to detect deviations, in accordance with workplace procedures                                                               |
|                                                          | <b>5.3</b> | Corrective action is taken, in accordance with workplace procedures                                                                                                                                           |
|                                                          | <b>5.4</b> | Appropriate personnel are notified when defects are detected, in accordance with workplace procedures                                                                                                         |
| <b>6 Complete documentation</b>                          | <b>6.1</b> | Compressed air system plant problems, movements, abnormalities 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 Companion Volume Implementation Guide.

## **Unit Mapping Information**

This unit replaces and is equivalent to UEPOPS320B Operate and monitor compressed air systems.

## **Links**

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>