



**Australian Government**

**Assessment Requirements for PMAOPS314  
Operate and troubleshoot compressor  
systems**

**Release: 1**

# Assessment Requirements for PMAOPS314 Operate and troubleshoot compressor systems

## Modification History

Release 1. Unit code and title changed. Application and Performance Criteria changed. Range of Conditions removed. Assessment Requirements changed. Supersedes and is equivalent to PMAOPS304 Operate and monitor compressor systems and equipment.

## Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit:

- at least 2 times, each in a separate work context.

## Knowledge Evidence

There must be evidence the candidate has knowledge of:

- all items on a schematic of the compressor system, including:
  - type of compressor, the component plant items and their functions
  - principles of operation of plant and equipment
  - functions of major components and troubleshooting techniques
  - interactions between plant items and processes
  - operating parameters and integrity limits, and product specifications and tolerances including temperature, pressure and flow
  - procedures for starting, stopping, operating, controlling and isolating the system
  - methods of changing flow rate and specifications, and the advantages and disadvantages of each
  - impact of external factors (including variations in weather)
  - emergency shutdown procedures
- physics to the level of being able to provide an overview of the science of the compressor process
- compressor system abnormal situations and required action, including but not limited to:
  - process gas variations
  - instrument failure and wrong reading
  - electrical failure
  - mechanical failure
  - operational problem
  - surging
  - control of temperature and pressure
  - variations in feed

- vibration
- hierarchy of control
- compressor system hazards:
  - possible causes
  - potential consequences
  - appropriate risk controls
    - reporting and escalation procedures.

## Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
  - compressor system
  - operating procedures
  - abnormal situations must be relevant to compressor systems.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

## Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=9fc2cf53-e570-4e9f-ad6a-b228ffdb6875>