



**Australian Government**

**Assessment Requirements for PMAOPS334  
Operate and troubleshoot gas absorption  
system**

**Release: 1**

# Assessment Requirements for PMAOPS334 Operate and troubleshoot gas absorption system

## 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 PMAOPS326 Operate gas absorption unit.

## 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 and included regeneration of the absorbent.

## Knowledge Evidence

There must be evidence the candidate has knowledge of:

- all items on a schematic of the gas absorption system, including:
  - gas absorber system items, functions and troubleshooting techniques
  - principles of operation, gas treatment and extraction
  - operating parameters and integrity limits, product specifications and tolerances including temperature, pressure, flow and pH
  - procedures for starting, stopping, operating, controlling and isolating system
  - emergency shutdown procedures
  - process control philosophies and strategies
  - interactions with processes
- physics and chemistry to the level of being able to provide an overview of the science of the gas absorption process
- gas absorption system abnormal situations and required action, including but not limited to:
  - variation or loss of feed
  - unstable control of pressure, temperature level and flows
  - control equipment failure
  - process plant trips
  - change in atmospheric conditions (rain, temperature, wind and lightning)
  - medium contamination (acidic – pH, solids, water content and hydrocarbon content)
  - poor regeneration (flow/heat/cooling)
  - poor quality from test results
  - analyser inaccuracy or malfunction

- hierarchy of control
- gas absorption and regeneration 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:
  - gas absorption system
  - operating procedures
- abnormal situations must be relevant to gas absorption system.

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>