



**Australian Government**

# **Assessment Requirements for PMAOPS306 Operate and troubleshoot production unit**

**Release: 1**

# Assessment Requirements for PMAOPS306 Operate and troubleshoot production unit

## 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 PMAOPS300 Operate a production 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.

## Knowledge Evidence

There must be evidence the candidate has knowledge of:

- all items on a schematic of the production unit, including:
  - principles of operation of plant and equipment
  - type of production unit, the component plant items and their functions
  - operating parameters and integrity limits including temperature, pressure, flow, pH and amps
  - impact of external factors, including variations in weather and feed
  - methods of changing rate, grade, specification and feed, and the advantages and disadvantages of each
  - procedures for starting, stopping, operating, controlling and isolating unit
  - emergency shutdown procedures
  - required preparation and permits for different types of work to be done on production unit and its component items
  - interactions with processes
- physics and chemistry to the level of being able to provide an overview of the science of the production unit process
- product specifications and tolerances and effects of variations in process conditions and materials
- production unit abnormal situations and required actions, including but not limited to:
  - unstable and suboptimal operation
  - critical variables and outputs
  - variations in feed rates
  - variations in quality
  - unstable process variables
  - loss of utilities

- process plant trips
- emergency situations
- production 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:
  - production unit process system
  - operating procedures
- abnormal situations must be relevant to the production unit.

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>