



**Australian Government**

# **PMAOPS322 Undertake well management**

**Release: 1**

# PMAOPS322 Undertake well management

## Modification History

Release 1. Unit code and Application changed. Performance Criteria changed. Range of Conditions removed. Assessment Requirements changed. Supersedes and is equivalent to PMAOPS321 Undertake well management.

## Application

This unit describes the skills and knowledge required to operate and manage a well at:

- onshore and offshore production facilities
- oil or gas production sites.

This unit applies to autonomous operators who are required to demonstrate a significant understanding of the process and the equipment operation in a plant with local control, or in liaison with the control-room operator in a plant with a centralised control panel. In the case of a large, complex plant, the operations technician would be part of a team during startup and shutdown procedures.

This unit applies to an individual working alone or as part of a team or group, and working in liaison with other shift team members and the control-room operator. It does not require the operation of a central control panel.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

## Pre-requisite Unit

Nil

## Competency Field

Operations

## Elements and Performance Criteria

| Elements                                         | Performance Criteria                                                                                   |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i> |

| <b>Elements</b>                                                 | <b>Performance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i>                | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1. Operate well system according to procedures                  | 1.1 Receive and give shift handover<br>1.2 Communicate with personnel to identify and coordinate work requirements<br>1.3 Identify, control and report process system hazards<br>1.4 Check for recent work undertaken on well and address outstanding and incomplete work<br>1.5 Check operational status of process system<br>1.6 Perform routine checks, and complete logs and paperwork, taking action on unexpected readings<br>1.7 Adjust process system according to agreed operational parameters                                                                                      |
| 2. Identify and respond to abnormal situations during operation | 2.1 Monitor well system frequently and critically throughout shift using own senses and measured and indicated data<br>2.2 Monitor field data and instrumentation to ensure that product remains on specification<br>2.3 Identify impacts of changes upstream and downstream<br>2.4 Identify actual and developing situations that may require action<br>2.5 Take action to remedy abnormal situations according to operating procedures<br>2.6 Complete required documents outlining abnormal situation management and corrective action taken                                               |
| 3. Shut down and prepare well system for maintenance            | 3.1 Prepare process system to be shut down according to operating procedures<br>3.2 Complete pre-shutdown checks according to operating procedures<br>3.3 Shut down process system according to operating procedures<br>3.4 Identify, control and report shutdown hazards<br>3.5 Monitor shutdown and identify abnormal situations which may require action<br>3.6 Take action to remedy abnormal situations according to operating procedures<br>3.7 Shut down and changeover duty and standby equipment according to operating procedures<br>3.8 Isolate process system from energy sources |

| Elements                                         | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                                                                                                                    |
| 4. Prepare and start up well system              | 4.1 De-isolate and prepare process system to be returned to standby or service<br>4.2 Complete pre-start checks according to operating procedures<br>4.3 Start up process system according to operating procedures<br>4.4 Identify, control and report startup hazards<br>4.5 Monitor startup and identify abnormal situations that may require action<br>4.6 Take action to remedy abnormal situations according to operating procedures |

## Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

- Learning skills to follow instructions, monitor process and select appropriate procedure.
- Reading skills to follow written procedures and documentation.
- Writing skills to complete workplace documentation.
- Oral communication skills to liaise and coordinate with team members, the control-room operator, contractors and other service providers.
- Numeracy skills to conduct flow measurements, monitor field data, instrumentation and process parameters.

Other foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

## Unit Mapping Information

Release 1. Supersedes and is equivalent to PMAOPS321 Undertake well management.

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=9fc2cf53-e570-4e9f-ad6a-b228ffdb6875>