



Australian Government

PMAOPS231 Control gas odourisation

Release: 1

PMAOPS231 Control gas odourisation

Modification History

Release 1. Supersedes and is equivalent to PMAOPS231B Control gas odourisation

Application

This unit of competency covers the skills and knowledge required to control gas odourisation and related processes.

This unit of competency applies to operators who are required to store and handle odourants, monitor the daily inventory of the odourising agent, monitor and operate the injection pumps, identify and rectify operational problems, and respond to abnormal situations.

The operator will be familiar with the physical and chemical properties of the product and understand all the safety issues set down in the safety data sheet (SDS) associated with this chemical.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Competency Field

Operations

Unit Sector

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Prepare for work	1.1	Receive and give shift handover
	1.2	Identify work requirements
	1.3	Identify and control hazards
	1.4	Coordinate with appropriate personnel
	1.5	Check for recent work undertaken on gas odourising plant

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| | | 1.6 | Note any outstanding/incomplete work |
| | | 1.7 | Check operational status of gas odourising plant |
| 2 | Start up and shut down gas odourising plant in accordance with procedures | 2.1 | Complete pre-start checks |
| | | 2.2 | Start up odourant injection plant |
| | | 2.3 | Shut down odourant injection plant |
| | | 2.4 | Respond to plant trip/emergency shutdown |
| 3 | Control odourisation in accordance with legislative/regulatory requirements | 3.1 | Maintain specified odourant concentration in the gas |
| | | 3.2 | Store odourant |
| | | 3.3 | Handle or transport odourant |
| | | 3.4 | Handle waste products in accordance with legislative requirements |
| | | 3.5 | Complete reports, records and logs |
| | | 3.6 | Monitor odourisation and take action in accordance with procedures |
| 4 | Isolate and de-isolate plant | 4.1 | Isolate plant. |
| | | 4.2 | Make safe for required work |
| | | 4.3 | Check plant is ready to be returned to service |
| | | 4.4 | De-isolate and prepare plant for return to service |

Foundation Skills

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

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

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Regulatory framework

The latest version of all legislation, regulations, industry codes of practice and Australian/international standards, or the version specified by the local regulatory authority, must be used, and include one or more of the following:

- legislative requirements, including work health and safety (WHS)
- industry codes of practice and guidelines
- environmental regulations and guidelines
- Australian and other standards
- licence and certification requirements

All operations to which this unit applies are subject to stringent health, safety and environment (HSE) requirements, which may be imposed through state/territory or federal legislation, and these must not be compromised at any time. Where there is an apparent conflict between performance criteria and HSE requirements, the HSE requirements take precedence.

Procedures

All operations must be performed in accordance with relevant procedures.

Procedures are written, verbal, visual, computer-based or in some other form, and include one or more of the following:

- emergency procedures
- work instructions
- standard operating procedures (SOPs)
- safe work method statements (SWMS)
- formulas/recipes
- batch sheets
- temporary instructions
- any similar instructions provided for the smooth running of the plant
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Hazards

Hazards include one or more of the following:

- smoke, darkness and heat
- electricity
- gas
- gases and liquids under pressure

- structural hazards
- structural collapse
- equipment failures
- industrial (machinery, equipment and product)
- equipment or product mass
- noise, rotational equipment or vibration
- plant services (steam, condensate and cooling water)
- limited head spaces or overhangs
- working at heights, in restricted or confined spaces
- flammability and explosivity
- hazardous products and materials
- unauthorised personnel
- sharp edges, protrusions or obstructions
- slippery surfaces, spills or leaks
- extreme weather
- other hazards that might arise

Routine problems

Routine problems must be resolved by applying known solutions.

Routine problems are predictable and include one or more of the following:

- suction vapour locks
- diaphragm ruptures
- low suction pressure
- flow regulator failures
- gas leaks and fires
- equipment failures

Known solutions are drawn from one or more of the following:

- procedures
- training
- remembered experience

Non-routine problems must be reported according to according to relevant procedures.

Action

Action in accordance with procedures includes the following:

- determining problems needing action
- determining possible fault causes

- rectifying problem using appropriate solution within area of responsibility
- following through items initiated until final resolution has occurred
- reporting problems outside area of responsibility to designated person

Operational equipment

Operational equipment includes the following:

- emergency response kit including absorption material
- neutralising agents
- storage level indicator (magnetic detector)
- personal protective equipment (PPE)
- molecular sieve for venting
- pumps and flow control equipment

Operate

Operate is to monitor, adjust/change the plant item/unit/system to meet specifications, by one or more of the following:

- manually in the plant
- using local controller in the plant
- using the process control system in the control room

Start up/shut down as required

Start up/shut down as required includes the following:

- start up and shut down to/from normal operating conditions
- start up and shut down to/from isolated, cold or empty
- start up and shut down to/from other conditions/situations experienced on the plant

Unit Mapping Information

Release 1. Supersedes and is equivalent to PMAOPS231B Control gas odourisation

Links

Companion Volume implementation guides are found in VETNet -

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