



Australian Government

PMAOPS344 Operate and troubleshoot flare systems

Release: 1

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Modification History

Release 1. This version was released with PMA Chemical, Hydrocarbons and Refining Training Package, Release 2.0.

Application

This unit of competency describes the skills and knowledge required to operate a flare system. This may involve operational work undertaken during normal operation, abnormal situation management, and the preparations undertaken for both flare equipment maintenance and reinstatement after maintenance.

The flare system must be an integrated flare system that is managed by a control room, and cannot be a simple ground flare or vent. 'Flare system' includes all items from the safety relief device through to the flare inclusive.

This unit of competency applies to autonomous operators who may work alone or as part of a team or group, reporting back to a control-room operator.

No licensing, legislative 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>
1. Operate flare system in accordance with procedures	1.1 Receive and give shift handover 1.2 Identify type of flare system and duty/standby status of relevant equipment 1.3 Monitor flare system frequently and critically throughout shift using own senses, and measured and indicated data 1.4 Ensure the flare system is running within stated operational

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	tolerances as requested by the control room operator
2. Identify and respond to abnormal situations	2.1 Identify problems within the flare system and problems in other units that will impact flare system operation 2.2 Take action to remedy abnormal flare situations in according to operating procedures, and as required by control room 2.3 Verify the asset integrity of all flare equipment and respond to integrity breaches according to operating procedures 2.4 Maintain appropriate communication with control-room operator during abnormal flare situations 2.5 Assess flare incidents and notify appropriate personnel of the incident according to operating procedures 2.6 Complete required documents outlining abnormal flare situation management including corrective action taken
3. Shutdown and prepare flare system for maintenance	3.1 Identify maintenance scope from workplace documentation 3.2 Prepare flare system for duty changeover according to operating procedures 3.3 Maintain appropriate communication with control-room operator during flare system duty changeover 3.4 Identify, control and report shutdown hazards 3.5 Isolate flare systems and utilities from operating sources according to operating procedures 3.6 Leave the shutdown flare system in a safe state for handover to maintenance
4. Prepare and start up flare system	4.1 Check that any maintenance or other performed work has been completed 4.2 De-isolate flare system equipment according to operating procedures 4.3 Complete flare system pre-start checks according to operating procedures 4.4 Identify, control and report startup hazards 4.5 Maintain appropriate communication with control-room operator during the flare startup

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 and the control-room operator.
- Numeracy skills to 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. New Unit.

Links

Companion Volume implementation guides are found in VETNet -

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