



Australian Government

PMAOPS357 Operate and troubleshoot produced water and water injection systems

Release: 1

PMAOPS357 Operate and troubleshoot produced water and water injection systems

Modification History

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

Application

This unit describes the skills and knowledge required to operate and troubleshoot produced water and water injection systems.

This unit applies to autonomous operators who are required to demonstrate an 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.

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, as appropriate. In the case of a large, complex plant, the operations technician would be part of a team during startup and shutdown activities.

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>
1. Operate produced water and water injection systems according to procedures	1.1 Receive and give shift handover 1.2 Communicate with personnel to identify and coordinate work requirements 1.3 Identify, control and report system hazards 1.4 Check for recent work undertaken on system and address outstanding and incomplete work

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.5 Perform routine checks, and complete logs and documentation 1.6 Adjust system according to operational parameters
2. Identify and respond to abnormal situations during operation	2.1 Monitor field system, data and instrumentation to ensure system operates according to specification 2.2 Identify impacts of changes upstream and downstream 2.3 Identify actual and developing situations that may require action 2.4 Take action to remedy abnormal situations 2.5 Complete required documents outlining abnormal situation management and corrective action taken
3. Shut down and prepare produced water and water injection systems for maintenance	3.1 Shut down system according to workplace procedures 3.2 Identify, control and report shutdown hazards 3.3 Monitor shutdown and identify abnormal situations that may require action 3.4 Take action to remedy abnormal situations according to workplace procedures 3.5 Shut down and changeover duty and standby equipment according to workplace procedures 3.6 Isolate system from energy sources
4. Prepare and start up produced water and water injection systems	4.1 Check for recent work undertaken on system and address outstanding and incomplete work 4.2 De-isolate and prepare system to be returned to standby or service 4.3 Complete pre-start checks according to workplace procedures 4.4 Start up system according to workplace procedures 4.5 Identify, control and report startup hazards 4.6 Monitor startup and identify abnormal situations that may require action 4.7 Take action to remedy abnormal situations according to workplace 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.
- Numeracy skills to monitor field data, instrumentation and process parameters.
- Oral communication skills to liaise and coordinate with team members and the control-room operator.
- Reading skills to follow written procedures and documentation.
- Writing skills to complete workplace documentation.

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>