



Australian Government

Assessment Requirements for PMAOPS346 Operate and troubleshoot liquefaction process

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.

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- at least 2 times, each in a separate work context.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- all items on liquefaction system schematics including:
 - liquefaction process system item types, functions and troubleshooting techniques
 - principles of liquefaction system operation to meet company requirements
 - operating parameters and integrity limits, and product specifications and tolerances including temperature, pressure, flow and pH
 - procedures for starting, stopping, operating, controlling and isolating the system
 - emergency shutdown procedures
 - process control philosophies and strategies
 - interactions between plant items and processes
- basic physics and chemistry to the level of being able to provide an overview of the science of the liquefaction process
- liquefaction system abnormal situations and required action, including but not limited to:
 - variation or loss of feed
 - unstable control of pressure, temperature level and flows
 - control equipment failure
 - process plant trips
 - change in atmospheric conditions (including rain, temperature, wind and lightning, still conditions)
 - poor quality indicated in test results
 - analyser inaccuracy or malfunction
- hierarchy of controls
- liquefaction process hazards:
 - possible causes
 - potential consequences

- appropriate risk control
- 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:
 - liquefaction system
 - operating procedures
- abnormal situations must be relevant to liquefaction operations.

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>