



Australian Government

Assessment Requirements for PMAOPS339 Operate and troubleshoot wells and gathering systems

Release: 1

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Modification History

Release 1. Unit code and title changed. Application and Performance Criteria changed. Range of Conditions removed. Assessment Requirements changed. Supersedes and is equivalent to PMAOPS333 Operate wells and gathering systems.

Performance Evidence

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

- at least 2 times, each in a separate work context, including:
 - shutting down in an emergency.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- principles of:
 - well design and construction
 - pumping
 - gas flow
 - gas and water separation
 - equalization
- all items on a schematic of the production unit, including:
 - operation of plant and equipment
 - downhole drawings (DHDs) and their application to plant and well operation
 - types of wells and gathering systems, including free-flow and pumped wells
 - draining and venting requirements
 - remote terminal unit functions, operation and abnormal situations
 - interactions between plant items and processes
 - operating parameters and integrity limits, and product specifications and tolerances including flange pressure and temperature ratings (basic), temperature, pressure and flow
 - impact of external factors (including variations in weather and feed)
 - procedures for starting, stopping, operating, controlling and isolating the system
 - functions of major components and troubleshooting techniques
- local lease and well operations requirements, arrangements and constraints
- well services handover and intervention procedures
- reservoir management, hydraulics, hydrates, hydrate inhibition, subsea as appropriate

- physics and geology to the level of being able to provide an overview of the science of the well and gathering system process, including coal seam gas (CSG) formation, structure and completions, coal type and structure, well design and construction, fluid dynamics and statics as relevant to the system, natural gas and oil characteristics, hydrate formation, cathodic protection (basic), static electricity and earthing, corrosion control and chemical handling, and safety data sheets (SDS)
- well and gathering system abnormal situations and required action, including but not limited to:
 - leakage
 - solids (formation fines)
 - vibration
 - loss of control of pressure and/or flow
 - hydrate formation and blockages
 - liquid slugging
 - corrosion
 - erosion
 - sulphate-reducing bacteria
 - scale formation
 - equipment failure
 - change in product parameter (temperature, flow, pressure or level)
 - fouling or contamination
- hierarchy of control
- wells and gathering systems hazards:
 - possible causes
 - potential consequences
 - appropriate risk controls
 - escalation and reporting 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:
 - well and gathering system
 - operating procedures.
- abnormal situations must be relevant to wells and gathering systems.

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>