



Australian Government

Assessment Requirements for PMAOPS322 Undertake well management

Release: 1

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Modification History

Release 1. Unit code and Application changed. Performance Criteria changed. Range of Conditions removed. Assessment Requirements changed. Supersedes and is equivalent to PMAOPS321 Undertake well management.

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.

Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- principles of:
 - operation of plant and equipment
 - well design and construction
 - pumping
 - gas flow
 - gas and water separation
 - equalisation
 - fluid dynamics and statics
- all items on a schematic of the well system, including:
 - types of wells
 - interactions between plant items and processes
 - operating parameters and integrity limits; product specifications and tolerances; flange, pressure and temperature ratings; product temperature, pressure and flow
 - impact of external factors, including variations in weather and feed
 - procedures for starting, stopping, operating, controlling and isolating system
 - emergency shutdown procedures
 - functions of major components and troubleshooting techniques
 - well operations requirements, arrangements and constraints
- well services handover and intervention procedures
- reservoir management, hydraulics, hydrates, hydrate inhibition, subsea as appropriate
- natural gas and oil characteristics

- physics and chemistry to the level of being able to provide an overview of the science of the well management process, including static electricity principles, corrosion control and chemical handling, environmental aspects and conditions, and hydrate formation
- basis of the process used in the well operation
- mathematical formulae and formats to calculate product volumes
- well system abnormal situations and required action, including but not limited to:
 - leakage
 - vibration
 - loss of control of pressure and/or flow
 - hydrates/blockages
 - liquid slugging
 - corrosion
 - scale formation
 - erosion
- hierarchy of control
- well management hazards:
 - possible causes
 - potential consequences
 - appropriate risk controls
 - 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:
 - well system
 - operating procedures
- abnormal situations must be relevant to well 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>