



Australian Government

Assessment Requirements for PMAOPS434 Commission wells and gathering systems

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to PMAOPS434A Commission wells and gathering systems

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria, and include the ability to:

- undertake readings and operate and monitor well system
- analyse and interpret network communication and data on individual wells and recommend action to ensure flow meets plant and organisation needs
- perform site checks, start-up/shutdown procedures, and isolations and de-isolations
- interpret fluid level readings and maintain fluid levels
- plan and coordinate the work of the team
- isolate the causes of problems and distinguish between causes of problems/alarm/fault indications, including:
 - instrumentation failure/malfunction
 - electrical failure/malfunction
 - mechanical failure/malfunction
 - control system failure/malfunction
 - mismatch between flow rates and system requirements
 - wear, tear and corrosion of plant and equipment
 - quality measurement inaccuracy (e.g. analyser or sampling deficiency)
 - systemic/recurring problems
- identify hazards and risks and apply risk control procedures
- calculate volumetric flow rates and equipment efficiencies.

Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- oil/gas formation, structure and completions for coal seam gas (CSG), traditional or other oil/gas formations
- coal type and structure or other bedrock structures
- well design and construction
- inter-well communications (e.g. pressure, flow and other technical parameters)
- well status data (e.g. well flows, flow rates, pressure and temperature, and downhole conditions and information)
- hydrate formation

- free flow and pumped wells
- pumping principles
- gas flow principles
- gas/water separation principles
- draining and venting requirements
- corrosion control, chemical handling and safety data sheets (SDS)
- flange pressure and temperature ratings (basic)
- cathodic protection (basic)
- downhole drawings (DHDs) and their application to plant/well operation
- remote terminal unit, functions, operation and problems
- pump, drivehead, fuel gas systems operations and principles
- fluid dynamics and statics as relevant to the system
- reservoir management
- all items on a schematic of the remote system and the function of each
- methods of changing production rates and the advantages and disadvantages of each
- effect of specific climatic and environmental factors
- water testing and gas break through testing techniques
- function and troubleshooting of major components and their problems
- hierarchy of control
- hazards that may arise in the job/work environment, and:
 - their possible causes
 - potential consequences
 - appropriate risk controls.

Assessment Conditions

- The unit should be assessed holistically and the judgement of competence based on a holistic assessment of the evidence.
- The collection of performance evidence:
 - should occur over a range of situations which include typical disruptions to normal, smooth operations
 - will typically include a supervisor/third-party report focusing on consistent performance and problem recognition and solving. A supervisor/third-party report must be prepared by someone who has a direct, relevant, current relationship with the person being assessed and who is in a position to form a judgement on workplace performance relevant to the unit of competency
 - must include the use of hydrocarbon wells and gathering systems allowing demonstration of commissioning
 - may use industry-based simulation for part of the unit particularly where safety, lack of opportunity or significant cost is an issue.

- Assessment should occur in operational workplace situations. Where this is not possible, or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment reflecting realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Assessment in a simulated environment should use evidence collected from one or more of:
 - walk-throughs
 - pilot plant operation
 - demonstration of skills
 - industry-based case studies/scenarios
 - ‘what ifs’.
- Knowledge evidence may be collected concurrently with performance evidence (provided a record is kept) or through an independent process, such as workbooks, written assessments or interviews (provided a record is kept).
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications associated with this unit.
- The regulatory framework will be reflected in workplace policies and procedures and is not required to be independently assessed.
- Foundation skills are integral to competent performance of the unit and should not be assessed separately.
- Assessors must satisfy the assessor competency requirements that are in place at the time of the assessment as set by the VET regulator.
- In addition, the assessor or anyone acting in subject matter expert role in assessment must demonstrate both technical competency and currency. If the assessor cannot demonstrate technical competency and currency they must assess with a subject matter expert who does meet these requirements.
- Technical competence can be demonstrated through one or more of:
 - relevant VET or other qualification/Statement of Attainment
 - appropriate workplace experience undertaking the type of work being assessed under routine and non-routine conditions
 - appropriate workplace experience supervising/evaluating the type of work being assessed under routine and non-routine conditions
- Currency can be demonstrated through one or more of:
 - being currently employed undertaking the type of work being assessed
 - being employed by the organisation undertaking the type of work being assessed and having maintained currency in accordance with that organisation’s policies and procedures

- having consulted/had contact with an organisation undertaking the type of work being assessed within the last twelve months, the consultation/contact being related to assessment
- conducting on-the-job training/assessments of the type of work being assessed
- being an active member of a relevant professional body and participating in activities relevant to the assessment of this type of work.

Links

Companion Volume implementation guides are found in VETNet -

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