



Australian Government

RIIOGN303D Operate mud systems

Release: 2

RIIOGN303D Operate mud systems

Modification History

Release	Comment
1	This unit replaces RIIOGN303A Operate mud systems
2	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

Application

This unit describes a participant's skills and knowledge required to apply operate mud systems in Drilling.

This unit is appropriate for those working in operational roles.

No licensing or certification requirements apply to this unit at the time of publication.

Unit Sector

Drilling

Elements and Performance Criteria

1. Plan and prepare for operations	1.1. Access, interpret and apply Operate mud systems documentation and ensure the work activity is compliant 1.2. Obtain, read, interpret, clarify and confirm work requirements 1.3. Identify, address and report potential hazards, risks and environmental issues and implement control measures 1.4. Select and wear personal protective equipment appropriate to the work activities 1.5. Adhere to coordination requirements with others at the site prior to, during and on completion of work activities and ensure briefings/handover details are communicated 1.6. Confirm availability and status of necessary permits 1.7. Confirm availability of necessary third party utilities
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2. Operate mud system	2.1. Ensure good oilfield practice when operating equipment 2.2. Align valves in pits to ensure correct pit usage
3. Operate, maintain and repair mud conditioning equipment	3.1. Identify, confirm and adjust equipment as per supervisors or mud engineers instruction 3.2. Clean all equipment and visually inspect for leaks and proper operation, in accordance with specifications 3.3. Identify faults or potential faults, record and report to relevant personnel 3.4. Identify faults, record and report requirement for repair or maintenance 3.5. Replace screens or cones, on shakers, desilters and desanders 3.6. Perform periodic or scheduled preventative maintenance on all mud treatment units
4. Operate and service transfer (butterfly) valves in mud pits	4.1. Align valves 4.2. Lubricate valve stems of butterfly valves 4.3. Clean and inspect transfer valves 4.4. Replace or repair defective parts
5. Recognise warning signs of kicks	5.1. Monitor, adjust and report pit level 5.2. Monitor and report mud properties 5.3. Monitor and report size of cuttings 5.4. Monitor and report volume of mud returns

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIIOGN303A Operate mud pumps

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>