



**Australian Government**

# **RIIOGF302D Operate drilling fluids and mud pits**

**Release: 2**

## R1IOGF302D Operate drilling fluids and mud pits

### Modification History

Release	Comment
1	This unit replaces R1IOGF302A Operate drilling fluids and mud pits
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 operate drilling fluids and mud pits 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	<p>1.1. Access, interpret and apply Operate drilling fluids and mud pits documentation and ensure the work activity is compliant</p> <p>1.2. Obtain, read, interpret, clarify and confirm work requirements</p> <p>1.3. Identify, address and report potential hazards, risks and environmental issues and implement control measures</p> <p>1.4. Select and wear personal protective equipment appropriate to the work activities</p> <p>1.5. Resolve coordination requirements with others at the site prior to, during and on completion of work activities and ensure briefings/handover details are communicated</p> <p>1.6. Confirm availability and status of necessary permits to work</p> <p>1.7. Confirm availability of necessary third party utilities</p>
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2. Operate mud pits	<ul style="list-style-type: none"> <li>2.1. Align valves in pits to ensure correct pit usage</li> <li>2.2. Confirm plugs are fit for operation</li> <li>2.3. Seal or secure tanks</li> <li>2.4. Set high and low alarms</li> <li>2.5. Operate mud pit room ventilation system</li> <li>2.6. Operate hoppers</li> <li>2.7. Operate dust extraction system during mixing</li> <li>2.8. Supervise forklifts operations</li> <li>2.9. Store chemicals in appropriate storage area</li> </ul>
3. Operate, maintain and repair mud conditioning equipment	<ul style="list-style-type: none"> <li>3.1. Engage and/or adjust appropriate equipment as directed by supervisors or mud engineer</li> <li>3.2. Clean all equipment and visually inspect for leaks and correct operation</li> <li>3.3. Identify faults or potential faults, record and report to relevant personnel</li> <li>3.4. Perform periodic or scheduled preventative maintenance on all mud treatment units</li> </ul>
4. Monitor mud	<ul style="list-style-type: none"> <li>4.1. Monitor and record mud properties and parameters</li> <li>4.2. Set alarms to monitor mud</li> <li>4.3. Check viscosity and weight of mud conform to specifications as directed by mud engineer</li> <li>4.4. Maintain appropriate volumes and types of drilling fluids as required by well program or company</li> <li>4.5. Use appropriate mixing procedures to obtain desired properties</li> <li>4.6. Recognise warning signs of a kick, record and report immediately</li> </ul>

## 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**

RIIOGF302A Operate drilling fluids and mud pits

## **Links**

Companion Volume implementation guides are found in VETNet -

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