



Australian Government

RIIOGN302E Operate mud pumps

Release: 1

RIIOGN302E Operate mud pumps

Modification History

Release	Comment
1	This unit replaces RIIOGN302D Operate mud pumps. Amendments made to performance criteria 3.1 and performance evidence, removal of 'pony rod'. Added mapping table.

Application

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

This unit is appropriate for those working in operational roles.

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and industry sectors. Relevant information must be sourced prior to application of the unit.

Unit Sector

Drilling

Elements and Performance Criteria

1. Plan and prepare	1.1. Access, interpret and apply operational mud pump 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. Conform to safe working practices and current legislative and operational requirements 1.6. 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 1.7. Confirm availability of necessary third party utilities
2. Monitor mud pumps	2.1. Visually inspect and listen to mud pumps for abnormal sounds

	or noise 2.2. Check piston lubricating system 2.3. Check pop-off valve setting 2.4. Check pressure of suction and discharge dampeners 2.5. Charge discharge dampener with nitrogen
3. Maintain and repair mud pumps	3.1. Check clamp when pump is turned off 3.2. Lubricate gear end of pump and check oil levels in gear end of pump 3.3. Identify faults or potential faults, record and report 3.4. Identify, record and report requirement for repair or maintenance of mud pumps 3.5. Replace defective swabs, liner, valves, seats and wear plates of the fluid end of pump 3.6. Ready replacement parts for fluid end of pump 3.7. Select and use correct liners and swabs

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

Code and title current version	Code and title previous version	Comments	Equivalence status
RIIOGN302E Operate mud pumps	RIIOGN302D Operate mud pumps	Amendments made to performance criteria 3.1 and performance evidence, removal of 'pony rod'. Add mapping table.	Equivalent

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>