



Australian Government

RIIOGD203E Prepare and operate drilling fluid systems

Release: 1

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Modification History

Release	Comment
1	This unit replaces RIIOGD203D Prepare and operate drilling fluid systems. One performance criteria added; two performance criteria removed; and, several performance criteria amended. Performance and knowledge evidence amended.

Application

This unit describes a participant's skills and knowledge required to apply prepare and operate drilling fluid systems in drilling.

This unit is appropriate for those working in assistant 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 for operations	1.1 Access, interpret and apply drilling fluid system documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify and address potential risks, hazards and environmental issues and implement control measures 1.4 Select the personal protective equipment appropriate for the work activity 1.5 Conform to safe working practices and current legislative and operational requirements 1.6 Resolve coordination requirements with others at the site prior to commencing, during and on completion of the work activities 1.7 Assess geographic layout is appropriate for the type of fluid system in use 1.8 Assess operation of mud mixers, dump valves and equalising
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	valves 1.9 Identify and locate mud pump and discharge system
2. Establish operational requirements	2.1 Clarify difficulties in carrying out the instructions with the relevant personnel 2.2 Confirm availability and status of necessary permits to work 2.3 Confirm availability of necessary third party utilities 2.4 Confirm availability of required quantities and type of consumables 2.5 Identify errors, omissions and shortages and take appropriate remedial action within functional responsibility
3. Select and test equipment	3.1 Identify and select equipment appropriate for the work to be performed 3.2 Confirm equipment is functional and fit for the purpose and the environment in which it will be used 3.3 Identify defects in the equipment and take appropriate remedial action within functional responsibility 3.4 Lubricate fluid circulation components
4. Prepare drilling fluids	4.1 Confirm availability of sufficient quantities and types of fluids against operational requirements 4.2 Confirm tanks and mixing equipment are clean and free from contamination in accordance with instructions 4.3 Mix and treat fluids to specification 4.4 Obtain, correctly label in writing and store samples 4.5 Identify defects in the equipment and take appropriate remedial action within functional responsibility
5. Pump drilling fluids	5.1 Confirm recording and monitoring devices are pre-set to required parameters 5.2 Operate equipment 5.3 Identify faults and defects accurately and take appropriate remedial action within functional responsibility 5.4 Assist with obtaining samples, weigh, measure viscosity and record details 5.5 Record in writing data accurately at appropriate times and frequencies in accordance with operational requirements
6. Operate hopper system	6.1 Recognise operation of the hopper system 6.2 Operate and maintain hopper system and associated

	components
	6.3 Measure, calculate and log in writing mud properties correctly
	6.4 Recognise, record and report changes in returns of drilling fluid and pit volumes

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
RIIOGD203E Prepare and operate drilling fluid systems	RIIOGD203D Prepare and operate drilling fluid systems	Performance criteria amended, added and removed. Performance and knowledge evidence amended	Not equivalent

Links

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