



**Australian Government**

# **RIIWSV303D Operate fluid systems**

**Release: 3**

## RIIWSV303D Operate fluid systems

### Modification History

Release	Comment
1	This is a new unit
2	Corrected incorrect Elements and Performance Criteria that were loaded to TGA in release 1.
3	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 fluid systems in Drilling.

This unit is appropriate for those working in operational roles, to the level of a Derrickman.

Licensing, legislative, regulatory and certification requirements that may 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 (Well Servicing)

### Elements and Performance Criteria

1. Plan and prepare for fluid operations	1.1 Access, interpret and apply compliance documentation and ensure the work activity is compliant 1.2 Obtain, read, clarify/confirm and apply work instructions 1.3 Identify and report all potential hazards 1.4 Select and use/wear personal protective equipment and protective clothing 1.5 Coordinate job requirements with others at the site 1.6 Confirm permits required and prepare written permits to work
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2. Maintain and repair fluid pumps	<p>2.1 Check pony rod clamp is fitted correctly</p> <p>2.2 Lubricate gear end of pump and check oil levels in gear end of pump</p> <p>2.3 Identify faults and report immediately</p> <p>2.4 Identify, record and/or report requirement for repair or maintenance of mud pumps</p> <p>2.5 Maintain and replace defective swabs, liner, valves, seats, gauges and wear plates of the fluid end of pump</p>
3. Operate and monitor fluid pumps	<p>3.1 Carry out pre start checks</p> <p>3.2 Set or adjust all critical equipment such as pop-off valve and or choke manifold/s to safe operating parameters</p> <p>3.3 Test operational function of all valves and/or choke manifold/s in the fluid system</p> <p>3.4 Pressure test system, record in writing and communicate issues identified</p> <p>3.5 Confirm and identify flow path required for operation and pumping parameters</p> <p>3.6 Visually inspect and listen to mud pumps for abnormalities</p>
4. Operate, maintain and repair fluid pumps	<p>4.1 Check safety lines/restraints are in place, secure and functional</p> <p>4.2 Engage and/or adjust appropriate equipment as directed by supervisor</p> <p>4.3 Clean all equipment and visually inspect for leaks and proper operation, in accordance with specifications</p> <p>4.4 Identify faults and report immediately</p> <p>4.5 Identify, record in writing and report requirement for repair or maintenance of fluid conditioning equipment</p> <p>4.6 Replace screens on shakers or cones on desilters/desanders</p> <p>4.7 Replace bags/pods in filtration unit/s</p> <p>4.8 Perform periodic or scheduled preventative maintenance on all fluid treatment units</p>
5. Operate and service transfer valves in fluid pits/tanks or fluid pumps	<p>5.1 Correctly align valves</p> <p>5.2 Lubricate valve stems</p> <p>5.3 Clean and inspect transfer valves</p> <p>5.4 Replace or repair defective parts</p>
6. Identify and act upon variations in circulating	<p>6.1 Monitor, adjust and report pit/tank level</p>

medium during operation	6.2 Monitor and report fluid properties 6.3 Monitor and report size of cuttings 6.4 Monitor and report volume of fluid returns 6.5 Prepare for emergency situations
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## 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

No equivalent unit

## Links

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