



**Australian Government**

# **RIWSV301F Conduct and maintain well servicing derrick operations**

**Release: 1**

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## Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 5.0.

## Application

This unit describes the skills and knowledge required to conduct and maintain well servicing derrick operations in drilling. It prepares individuals to handle tubulars and equipment, prepare hole for circulation with air/fluid, participate in head-up and pressure tests and clean out well bore/drill plugs.

This unit applies to those working in an operational role. They generally perform tasks involving a broad range of skilled applications in a wide variety of contexts, which may involve some discretion and judgement in selecting equipment, services and contingency measures.

Licensing, legislative and certification requirements that may apply to this unit can vary between states, territories, and industry sectors. Users must check requirements with relevant body before applying the unit.

## Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare derrick operations	1.1 Obtain, confirm and apply work instructions 1.2 Access, interpret and apply compliance documentation and confirm work activity is compliant 1.3 Clarify difficulties in carrying out instructions with the relevant personnel 1.4 Identify and minimise environmental issues and potential hazards, and assess and address risks within scope of own role and according to workplace procedures 1.5 Confirm personnel coordination requirements at the site are met prior to commencement of work activities 1.6 Confirm availability and status of necessary permits to work

<b>ELEMENT</b>	<b>PERFORMANCE CRITERIA</b>
	1.7 Confirm availability of necessary third party utilities according to operational requirements 1.8 Confirm availability of required quantities and type of consumables against operational requirements 1.9 Select and use wear personal protective equipment and wear protective clothing required for work activities 1.10 Identify errors, omissions and shortages and take required remedial action within functional responsibility 1.11 Inform driller of status of derrick operating equipment
2. Handle tubulars and equipment	2.1 Position tubulars and equipment according to operational requirements 2.2 Assist in making and breaking connections where required 2.3 Identify faults and defects and take required remedial action within functional responsibility 2.4 Handle equipment using safe lifting and handling techniques
3. Prepare hole for circulation with air/fluid	3.1 Complete pre-raise and pre-circulation checks and establish required circulation 3.2 Perform pre-spud safety checks 3.3 Check all connections and valves to manifold and well head are in proper position as required 3.4 Maintain drilling fluid volume and properties according to work requirements 3.5 Inform driller of current operating conditions 3.6 Maintain written inventory of circulation system and parts as required 3.7 Check and record mud and fluid additives as required 3.8 Follow all operator instructions
4. Participate in head-up and pressure test	4.1 Prepare for necessary equipment changes 4.2 Prepare drilling fluid according to work requirements 4.3 Assist in nipping-up 4.4 Assist driller in blow out prevention testing
5. Clean out well bore/drill plugs	5.1 Consult driller and follow instructions 5.2 Maintain housekeeping and safe practices during drilling according to workplace procedures and safety requirements 5.3 Assist in completion or abandonment of well
6. Prepare to commence drilling/circulating operations	6.1 Align equipment on active systems for drilling/circulating 6.2 Turn on and check all required machinery 6.3 Watch for return sand report changes 6.4 Measure and log pit, tank and fluid levels regularly as required

ELEMENT	PERFORMANCE CRITERIA
7. Assist driller on drill floor	7.1 Assist in handling and nipping-up of blow out prevention stack 7.2 Carry out role of assistant to driller when on drill floor
8. Shutdown rig and rig out	8.1 Wash and drain circulation system 8.2 Repair equipment according to manufacturer specifications and work requirements 8.3 Store equipment according to safety requirements and workplace procedures

## Foundation Skills

*This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.*

SKILL	DESCRIPTION
Reading	<ul style="list-style-type: none"> <li>Identifies critical information from the organisational plan, work programs and lease details</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Produces and completes workplace reports, including organisational procedures and using appropriate vocabulary, grammatical structures and conventions</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>Uses verbal communication techniques to communicate with others</li> </ul>

## Unit Mapping Information

Supersedes and is equivalent to RIIWSV301E Conduct and maintain well servicing derrick operation.

## Links

Companion Volume implementation guides is found on VETNet -

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