



Australian Government

RIIWSV201D Perform well servicing rig floor operations

Release: 3

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Modification History

Release	Comment
1	This is a new unit
2	Editorial corrections
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 perform well servicing rig floor operations in Drilling.

This unit is appropriate for those working in an assistants role.

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.

Elements and Performance Criteria

1 Plan and prepare equipment	1.1 Access, interpret and apply compliance documentation and ensure the work activity is compliant 1.2 Obtain, read, confirm and apply work instructions 1.3 Identify, manage and report all potential hazards 1.4 Resolve coordination requirements with others at the site prior to commencing and during work activities 1.5 Confirm availability of required quantities and type of consumables 1.6 Identify errors, omissions and shortages and take appropriate remedial action within functional responsibility 1.7 Select and use/wear protective clothing and equipment
2 Select handling equipment	2.1 Identify and select equipment appropriate for the work to be performed and conforming to operational requirements

	2.2 Confirm equipment is functional and fit for the purpose and the environment in which it will be used 2.3 Identify faults in the equipment and take appropriate remedial action taken within functional responsibility
3 Handle tubulars and equipment	3.1 Position tubulars and equipment according to operational requirements 3.2 Make and break connections safely 3.3 Identify faults and defects accurately and take appropriate remedial action within functional responsibility 3.4 Handle equipment using safe lifting and handling techniques 3.5 Record data accurately at appropriate times and frequencies
4 Prepare and run drill pipe/tubing	4.1 Measure and record all down hole tools and pipe to assist driller 4.2 Convey pipe and tools to drill floor with protectors fitted and in accordance with company safety operating procedures 4.3 Check tongs and slip dies for cleanliness and sharpness and secure long lines 4.4 Inspect, service and operate slips correctly 4.5 Operate make-up and break-out tongs correctly 4.6 Move drill floor drilling tools and equipment in accordance with operating procedures 4.7 Apply correct manual handling techniques 4.8 Conduct thread cleaning, inspection and lubrication safely 4.9 Make up and run drill string/tubing string,
5 Assist in preparation and running of blow out prevention (BOP) stack, riser and diverter package	5.1 Prepare running BOP equipment in accordance with rig operating procedures 5.2 Position BOP over the wellhead using the appropriate system 5.3 Assemble and check appropriate pressure test caps 5.4 Assemble and check appropriate handling equipment
6 Examine and service drill floor equipment	6.1 Read, interpret and apply lubrication schedules 6.2 Carry out lubrication in accordance with company and manufacturer's requirements 6.3 Identify and use correct types and quantities of lubricants for applications 6.4 Check drawworks, top drive, swivel, all valves, including standpipe and choke and kill valves, wirelines and hoists

	6.5 Identify, report and rectify faults where capable
7 Maintain a high standard of rig housekeeping	7.1 Maintain drill floor and equipment to company standard 7.2 Keep tools and portable equipment clean, well maintained and correctly stowed 7.3 Seal and stow flammable substances according to manufacturer's and statutory requirements 7.4 Keep covers and gratings in place, except when in use 7.5 Maintain tongs, slips and dies in a clean and sharp condition 7.6 Maintain non skid surfaces clean and free from oil and grease

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>

Assessment Requirements for RIISV201D Perform well servicing rig floor operations

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Performance Evidence

Evidence is required to be collected that demonstrates a candidate's competency in this unit. Evidence must be relevant to the roles within this sector's work operations and satisfy all of the requirements of the performance criteria of this unit and include evidence that the candidate:

- locates and applies relevant documentation, policies and procedures
- works effectively with others to undertake and complete well servicing rig floor operations that meets all of the required outcomes including:
 - complying with written and verbal reporting requirements and procedures
 - communicating clearly and concisely with others to receive and clarify work instructions
 - communicating clearly and concisely with others to resolve coordination requirements throughout work activities
- demonstrates completion of well servicing rig floor operations that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - correctly babbitt the wire line sockets
 - assisting in the preparation and running of blow out prevention (BOP) stack, riser and diverter package
 - prepares and runs the drill string:
 - well servicing rig floor operation
 - assisting as directed in preparing, running and cementing of casing:
 - checks the slips, elevator slips, elevator and tongs, including power tongs
 - makes up the tubing hanger and float or baffle collar correctly
 - fills the casing safely and with the required frequency

- thoroughly clean one mud tank and pre-mix any required mud materials
- preparing and operating pipe handling equipment:
 - checks and overhaul the rig tongs and slips
 - checks the chains and operate pipe spinner correctly
 - assists in making a conventional drilling connection using correct procedures
 - applies the additional safety regulations in force whilst flow testing a well
 - assists in rigging up the electro-logging sheave cable, and know the patterns and positions of its hanging points
- works effectively with others to undertake and complete well servicing rig floor operations that meets all of the required outcomes

Knowledge Evidence

The candidate must demonstrate knowledge of applying the performing well servicing rig floor operations through:

- accessing, interpreting and applying the organisation and site requirements and procedures
- rig safety and emergency procedures
- maintaining safe practices when Well Loggers are handling explosives or radioactive materials company and statutory safety guidelines, procedures and practices
- identifying the characteristics of stored energy
- complying with equipment safe operating procedures
- running and cementing casing
- knowledge of equipment condition and reporting mechanisms
- identifying the function of the triangular mark stamped just above the casing
- identifying the steps taken if the well kicks whilst running casing
- using various lubrication techniques
- carrying out rig maintenance
- identifying thread types
- using torque values for differing thread typesmilling operations
- performing conversion between metric and imperial
- using range of numerical calculations and measurements including:
 - length
 - quantities
 - volumes
 - conversion rates
- carrying out well control

Assessment Conditions

- An assessor of this unit must satisfy the requirements of the NVR/AQTF or their successors; and Industry regulations for certification and licensing; and,
- this unit is best assessed in the context of this sector's work environment;

- where personal safety or environmental damage are limiting factors, assessment may occur in a simulated environment provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills; and,
- this unit must be assessed in compliance with relevant legislation/regulation and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed; and,
- assessment may be conducted in conjunction with the assessment of other Units of Competency; and,
- assessment must confirm consistent performance can be applied in a range of relevant workplace circumstances; and,
- assessors must demonstrate the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and through the minimum years of current* work experience specified below in an Industry sector relevant to the outcomes of the unit; or,
- where the assessor does not meet experience requirements a co-assessment or partnership arrangement must exist between the qualified assessor and an Industry subject matter expert. The Industry subject matter expert should hold the unit being assessed (or an equivalent unit) and/or demonstrate equivalence of skills and knowledge at the unit level. An Industry technical expert must also demonstrate skills and knowledge from the minimum years of current work experience specified below in the Industry sector, including time spent in roles related to the unit being assessed; and,
- assessor and Industry subject matter expert requirements differ depending on the Australian Qualifications Framework Level (AQF) of the qualification being assessed and/or Industry Sector as follows:

Industry sector	AQF** Level	Required assessor or Industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Construction	1	1 Year
	2	2 Years
Drilling, Coal Mining and Extractive (Quarrying)	3-6	3 Years
Metalliferous Mining and Civil Construction	3-6	5 Years
Other sectors	Where this Unit is being assessed outside of the Resources and Infrastructure Sectors assessor and/or Industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no Industry standard is specified should comply with any relevant regulation.	

*Assessors can demonstrate current work experience through employment within Industry in a role relevant to the outcomes of the Unit; or, for external assessors this can be demonstrated through exposure to Industry by conducting frequent site assessments across various locations.

**Where a unit is being delivered outside of a Qualification the first numeric character in the Unit code should be considered to indicate the AQF level

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