



Australian Government

RIIOGD204F Perform rig floor 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 perform rig floor operations in drilling and well servicing operations. It prepares individuals to select and handle tubulars and equipment, prepare and run tubulars, assist in preparing and running blow out prevention (BOP) stack, riser and diverter package, examine and service rig floor equipment and conduct housekeeping.

It applies to those working in assistant roles. They generally work under supervision to undertake a prescribed range of functions involving known routines and procedures.

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

Unit Sector

Drilling

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 to perform rig floor operations	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply rig floor operations documentation and confirm work activity is compliant 1.3 Identify and minimise environmental issues and potential hazards, and assess and address risks within scope of own role and according to workplace procedures 1.4 Select and wear personal protective equipment required for work activity 1.5 Communicate with other personnel at site as required and

ELEMENT	PERFORMANCE CRITERIA
	confirm briefings and handover details are communicated and received 1.6 Confirm availability of required quantities and type of consumables 1.7 Identify errors, omissions and shortages and take remedial action as required within functional responsibility
2. Handle tubulars and equipment	2.1 Identify and select equipment required for work activities and conforming to operational requirements 2.2 Identify faults in the equipment and take required remedial action according to functional responsibility 2.3 Confirm equipment is functional and fit for the purpose and environment in which it will be used 2.4 Position tubulars and equipment according to operational requirements 2.5 Make and break connections safely 2.6 Handle equipment using safe lifting and handling techniques 2.7 Record data at required times and frequencies according to workplace procedures
3. Prepare and run tubulars	3.1 Assist in measuring and recording of all down hole tools and tubulars 3.2 Convey tubulars to floor with protectors fitted according to company safety operating procedures 3.3 Check make-up and break-out equipment and slip dies for cleanliness and sharpness and secure 3.4 Inspect, service and operate manual slips 3.5 Operate make-up and break-out equipment 3.6 Move rig floor tools and equipment according to safety and operational requirements and using required manual handling techniques 3.7 Conduct thread cleaning, inspection and lubrication safely 3.8 Make up tubular string, applying required use of make-up/break-out and lifting equipment
4. Assist in preparing and running BOP stack, riser and diverter package	4.1 Prepare BOP equipment according to rig operating procedures 4.2 Position BOP over the wellhead using required system 4.3 Assemble and check required riser running, pressure testing and handling equipment
5. Examine and service rig floor equipment and	5.1 Read and interpret lubrication schedules and carry out lubrication using required types and quantities of lubricants according to company and manufacturer

ELEMENT	PERFORMANCE CRITERIA
conduct housekeeping	requirements 5.2 Check equipment and identify, report and rectify faults as required and within scope of own role 5.3 Keep tools and portable equipment clean, well maintained and stowed 5.4 Seal and stow flammable substances according to manufacturer and statutory requirements 5.5 Keep covers and gratings in place, except when in use 5.6 Maintain make-up and break-out equipment, slips and dies in a clean and sharp condition 5.7 Maintain non-skid surfaces clean and free from oil and grease 5.8 Maintain rig floor and equipment to company standard

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
Numeracy	Interprets numerical information relating to required quantities of consumables and lubricants
Oral communication	Listens to short, explicit instructions for work procedures and asks questions to clarify and confirm
Self-management	Monitors and minimises own exposure to worksite hazards during activities

Unit Mapping Information

No equivalent unit. Supersedes and is not equivalent to RIIOGD204E Perform rig floor operations and RIIWSV201E Perform well servicing rig floor operations.

Links

Companion Volume implementation guides is found on VETNet -

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

Assessment Requirements for RIIOGD204F Perform rig floor operations

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- perform rig floor operations on at least two occasions, including:
 - assisting in preparation and running of blow out prevention (BOP) stack, riser and diverter package
 - preparing and running tubulars
 - preparing and operating tubular handling equipment, including:
 - checking and overhauling the rig tongs and slips
 - assisting in making a conventional connection using correct procedures
 - applying the additional safety regulations in force whilst flow testing a well
 - assisting in rigging up the electro-logging sheave cable and know the patterns and positions of its hanging points.

During the above, the candidate must:

- complete all evidence activities with the ability to transfer and apply skills and knowledge to new situations and environments
- locate and apply documentation, policies and procedures required for performing rig floor operations
- implement the requirements, procedures and techniques for the completion of performing rig floor operations, including:
 - safe handling of tubulars and associated equipment
 - preparing and operating tubulars
 - preparing and positioning the BOP over wellhead
 - preparing well control and mitigation equipment
 - using the required sequence and operation of equipment
 - reading, interpreting and recording in writing all measurements and data required for rig operations

- identifying the patterns and positions of the sheaves cable and its hanging points
- maintaining rig floor and equipment to company standard
- work with others to undertake and complete the performance of rig floor operations that meet required outcomes, including:
 - organising work activities to meet all task requirements
 - communicating with others to receive and clarify work instructions.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- key policies, procedures and established requirements for performing rig floor operations, including those for:
 - rig maintenance, safety and emergency
 - environmental requirements
 - operating and moving equipment
 - cleaning and maintaining rig and equipment
 - manual handling
 - equipment condition and reporting mechanisms
 - preparing and running BOP stack, riser and diverter package
 - performing equipment checks, including:
 - drawworks
 - rotary table/head
 - swivel
 - all valves, including:
 - standpipe, choke and kill valves
 - wirelines and hoists
 - housekeeping
- safe practices when well loggers are handling explosives or radioactive materials
- company and statutory safety guidelines, procedures and practices
- the characteristics of stored energy
- various lubrication techniques
- thread types
- torque values for differing thread types
- milling operations
- well control
- lubrication techniques and their application
- normal drilling operations
- non-routine drilling operations
- conversion processes between metric and imperial
- a range of numerical calculations and measurements, including:

- length
- quantities
- volumes
- conversion rates
- hazards relevant to blow out prevention operations.

Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:
 - personal protective equipment
 - equipment required to perform rig floor operations
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment; and,
- be assessed in compliance with relevant legislation/regulation and using policies, procedures and processes directly related to the industry sector for which it is being assessed; and,
- confirm consistent performance can be applied in a range of relevant workplace circumstances.

Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work 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.

Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory regulatory standards as set out in the Standards for Registered Training Organisations (RTOs) 2015/Australian Quality Training Framework mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing the required level of RII training product knowledge
- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence outlined in this unit of competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	2	2 years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 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.	

*Guidance on simulated environments has been stipulated in the RII implementation guide located on VETNet.

**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 a minimum number of site assessments as determined by the relevant industry sector, across various locations.

*** While a unit of competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

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