



Australian Government

RIIOGD503D Overseas drilling operations

Release: 3

RIIOGD503D Oversee drilling operations

Modification History

Release	Comment
1	This unit replaces RIIOGD503A Oversee drilling operations
2	Performance Criteria amended to make requirements more explicit.
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 oversee drilling operations in Drilling.

This unit is appropriate for those working in supervisory roles.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Drilling

Elements and Performance Criteria

1. Plan and prepare to oversee drilling operations	1.1 Access, interpret and apply overseeing drilling documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify and address potential hazards, risks and environmental issues and implement control measures 1.4 Select and wear personal protective equipment appropriate for the work activity 1.5 Obtain and interpret emergency procedures, and be prepared for an emergency 1.6 Resolve coordination requirements with others at the site prior to commencing, during and on completion of work activities
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2. Organise drilling of surface hole	2.1 Obtain copies of contract and well program, check and implement strategies designed and communicate to relevant personnel 2.2 Select, obtain and confirm plant, tools, equipment and personnel are on hand for surface hole operations 2.3 Prepare and check integrity of equipment, inspect casing and joints for damage 2.4 Maintain written records and liaise with service companies to rectify faults
3. Supervise and participate in nipping up and pressure testing	3.1 Organise equipment and nipping-up requirements for drilling out 3.2 Identify and carry out pressure testing of all blow out prevention (BOP) equipment 3.3 Carry out rig up to drill out 3.4 Monitor drill out safety processes and test gauge leak off
4. Organise rig up and rig up to spud	4.1 Assign crews to specific jobs and implement performance measures to monitor operations 4.2 Implement monitoring strategies and checks in place to ensure integrity of operations 4.3 Confirm verbal and written work instructions with operator's representative for drilling hole 4.4 Conduct crew meetings on total rig safety 4.5 Report damage to plant, tools and equipment, repair or recommend corrective actions 4.6 Ensure mud is mixed as per drilling program 4.7 Carry out pre-spud safety inspections with circulation and spud-in established 4.8 Undertake surveys and report variations to operator's representative 4.9 Maintain written records 4.10 Supervise running in and cementing of casing with operators representative
5. Complete and abandon well	5.1 Supervise completion and well abandonment with operator's representative 5.2 Make preparations to release rig and coordinate shutdown preparation list 5.3 Abandon well

6. Conduct housekeeping activities	6.1	Clean, check, maintain and store plant, tools and equipment
	6.2	Report issues identified with plant, tools and equipment

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 RIIOGD503D Oversee drilling 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 applicable documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient completion of overseeing drilling operations including:
 - identifying, addressing and reporting potential hazards and risks
 - controlling identified hazards
 - carrying out emergency response
 - identifying, addressing and reporting environmental issues
 - preparing written records and reports
 - obtaining and checking correct equipment and tools
 - ensuring pressure testing of all BOP equipment is carried out
 - ensuring rig up to drill out is carried out
 - monitoring drill out safety processes and test gauge leak off
 - complete and abandon well
 - rectifying and/or reporting faults and malfunctions
- works effectively with others to plan, prepare and oversee drilling operations that meets all of the required outcomes including:
 - preparing for and organising work activities to meet all task requirements
 - complying with written and verbal reporting requirements and procedures

- communicating clearly and concisely with others to receive and clarify work instructions
- demonstrates completion of the overseeing drilling operations that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - obtaining, checking and providing correct equipment and tools
 - assigning crews to specific jobs
 - implementing performance measures to monitor operations
 - carrying out appropriate inspections
 - arranging servicing, repairing and/or returning equipment
 - carry out numerical calculations including:
 - addition, subtraction, multiplication, division
 - relate normal pressure to temperature
 - using calculator if required
 - using estimated skills
 - basic geometry
 - use of metric and imperials and conversion between the two
 - calculations relating to pressure density, volume, height, velocity, length, weight
 - measurements

Knowledge Evidence

The candidate must demonstrate knowledge in overseeing drilling operations through:

- applying the organisation and site requirements and procedures for:
 - identifying and managing risks
 - identifying, addressing and reporting environmental issues
 - setting up work activity
 - site isolation, signage and erecting barriers
 - work health and safety
 - selecting and checking for faults, all plant, tools and equipment to carry out tasks
- blow out prevention (BOP) specifications
- casing tools and their applications
- equipment types and uses
- drill out procedures
- testing
- rig up to spud procedure
- drilling programs
- run in and cementing
- well abandonment

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 must be assessed in the context of this sector's work environment; 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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