



Australian Government

RIIOGD403E Conduct drilling 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 commence and maintain drilling operations, drill intermediate and/or main holes, prepare for hole abandonment and conduct housekeeping activities.

This unit applies to those working in supervisory roles. They generally perform tasks involving a broad range of varied activities most of which are complex and non-routine and are responsible for the quantity and quality of the output of others.

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 for drilling operations	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply drilling 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 to the work activities 1.5 Communicate emergency response and work health and safety requirements, including the possibility of wellbore influx and well

ELEMENT	PERFORMANCE CRITERIA
	control, to crew members 1.6 Communicate with other personnel at site according to work requirements and confirm briefings and handover details are communicated and received 1.7 Check, clean and lubricate equipment, including mud riser/conductor/connections and rectify and report any faults 1.8 Check tool requirements and assembled in wellhead area
2. Commence drilling operations	2.1 Obtain, interpret and clarify drilling program requirements 2.2 Undertake surface hole drilling according to work requirements and manufacturer specifications 2.3 Commence intermediate and main hole drilling operations 2.4 Monitor, maintain and record drilling parameters in line with drilling program 2.5 Calculate and maintain kill sheet requirements and carry out and record integrity tests 2.6 Maintain tubular tallies according to workplace procedures 2.7 Inspect and prepare casing running tools and casing for operation according to manufacturer specifications and workplace procedures
3. Maintain drilling operations	3.1 Undertake cementing preparations according to job requirements 3.2 Run casing and prepare for cementing according to job requirements 3.3 Undertake preparations, and give assistance in drilling stem tests and logging and coring operations 3.4 Instruct crew on safe core recovery procedures 3.5 Put arrangements in place for nipping-up and drilling out
4. Drill intermediate and/or main holes	4.1 Obtain, read and confirm drilling program and timing schedule 4.2 Check equipment and tools for sizing and integrity and rectify or report faults 4.3 Maintain hole within deviation limits 4.4 Adhere to sound drilling and safety practices during nipping-up and pressure testing operations
5. Prepare for hole abandonment	5.1 Confirm program for completion or abandonment 5.2 Check tools and equipment for integrity and rectify or report faults 5.3 Complete written reports according to workplace procedures
6. Conduct housekeeping activities	6.1 Clean, check, perform maintenance on and store plant, tools and equipment 6.2 Report issues identified with plant, tools and equipment

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	Identifies and interprets complex information from workplace procedures, documentation and regulations

Unit Mapping Information

Supersedes and is equivalent to RIIOGD403D Conduct drilling operations.

Links

Companion Volume implementation guides is found on VETNet -

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