



Australian Government

RIINHB313D Conduct cable tool drilling

Release: 2

RIINHB313D Conduct cable tool drilling

Modification History

Release	Comment
1	This unit replaces RIINHB313A Conduct cable tool drilling
2	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 conduct cable tool drilling in Drilling.

This unit is appropriate for those working in operational roles.

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and industry sectors. Relevant information must be sourced prior to application of this unit

Unit Sector

Drilling

Elements and Performance Criteria

1. Plan and prepare for cable tool drilling	1.1 Access, interpret and apply cable tool 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 risks, hazards and environmental issues and implement control measures 1.4 Select and wear personal protective equipment appropriate for work activities Communicate and coordinate activities with others throughout the work activity 1.5 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Operate cable	2.1 Carry out pre-start and start up procedures

tool drill	2.2 Identify, select and apply rig operational controls 2.3 Identify and use different tool/casing types, thread forms and thread make up parameters 2.4 Select appropriate bits, shoes, clamps, casing, tools and lifting devices for the expected formations 2.5 Use tool handling equipment such as spanners and chain tongs safely 2.6 Assemble tool strings 2.7 Maintain correct tension on the drill line and correct stroke rate during drilling operations 2.8 Bail hole of cuttings as required to maintain satisfactory penetration rates 2.9 Continually monitor hazards and risks , and ensure safety of self, other personnel, plant and equipment 2.10 Measure drill string components and calculate depth of hole 2.11 Select drilling tools to maintain hole straightness 2.12 Drive and jack casing as required 2.13 Select appropriate tools to undertake fishing operations
3. Operate drill fluid system	3.1 Identify hole conditions requiring the use of drilling fluids/chemicals 3.2 Select, prepare, apply, test and monitor suitable fluids and additives 3.3 Adjust fluid level in the hole to maintain hole stability and optimise penetration rates 3.4 Dispose of drill fluids in an environmentally safe manner
4. Recover formation samples	4.1 Select appropriate sampling tools/methods depending on the type of formations being drilled 4.2 Obtain formation water samples as required
5. Respond to problems	5.1 Identify possible problems in equipment or processes 5.2 Determine problems needing action 5.3 Determine possible fault causes 5.4 Rectify problem using appropriate solution within area of responsibility 5.5 Follow through items initiated until final resolution has occurred 5.6 Report problems outside area of responsibility to designated

	person
6. Maintain equipment Complete equipment maintenance and housekeeping	6.1 Carry out shutdown procedures and secure equipment 6.2 Sharpen bits or re-metal rope swivels 6.3 Clean and lubricate rope swivels to ensure correct operation 6.4 Check slings, drill lines and bailing lines for wear and replace as necessary using appropriate wire rope and spooling 6.5 Grease derrick sheaves regularly 6.6 Examine critical rig components such as sheaves and shackles regularly for wear or cracks 6.7 Maintain tool string components 6.8 Adjust clutch play, drive belt and jockey pulley tension as required 6.9 Perform routine maintenance to rig engine 6.10 Ensure housekeeping activities are completed 6.11 Process records

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

RIINHB313A Conduct cable tool drilling

Links

Companion Volume implementation guides are found in VETNet -

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