



Australian Government

RIINHB310D Conduct surface directional drilling

Release: 2

RIINHB310D Conduct surface directional drilling

Modification History

Release	Comment
1	This unit replaces RIINHB310A Conduct surface directional 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 surface directional drilling in Coal mining and Drilling.

This unit is appropriate for those working in operational roles.

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

Unit Sector

Coal mining

Drilling

Elements and Performance Criteria

1. Plan and prepare for surface directional drilling	<p>1.1 Access, interpret and apply conduct surface directional drilling, documentation and ensure the work activity is compliant</p> <p>1.2 Obtain, read, interpret, clarify and confirm work requirements</p> <p>1.3 Identify and address potential risks, hazards and environmental issues and implement control measures</p> <p>1.4 Select and wear personal protective equipment appropriate for work activities</p> <p>1.5 Communicate and coordinate activities with others throughout the work activity</p> <p>1.6 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency</p>
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<p>2. Bore pilot hole</p>	<p>2.1 Carry out pre-start and start up procedures</p> <p>2.2 Identify, select and apply rig operational controls</p> <p>2.3 Select appropriate cutting tool and drilling rig and components</p> <p>2.4 Fit locating device to drill head and attach drill head to drill stem</p> <p>2.5 Align drilling head with survey tool and survey control system</p> <p>2.6 Drill pilot hole according to design alignment</p> <p>2.7 Monitor drill path ensuring pilot hole meets conformance envelope and dogleg severity is within limits</p> <p>2.8 Add drill stem sections as required</p> <p>2.9 Steer drill head to achieve required pitch and direction</p> <p>2.10 Monitor and interpret all gauge and dial readings</p> <p>2.11 Monitor and interpret drill fluid return and drill spoil</p> <p>2.12 Monitor and interpret drill head position and pitch</p> <p>2.13 Continually monitor hazards and risks, and ensure safety of self, other personnel, plant and equipment</p> <p>2.14 Maintain drill log and reports as required</p>
<p>3. Respond to problems</p>	<p>3.1 Identify possible problems in equipment or process</p> <p>3.2 Determine problems needing action</p> <p>3.3 Determine possible fault causes</p> <p>3.4 Rectify problem using appropriate solution within area of responsibility</p> <p>3.5 Follow through items initiated until final resolution has occurred</p> <p>3.6 Report problems outside area of responsibility to designated person</p>
<p>4. Complete equipment maintenance and housekeeping</p>	<p>4.1 Carry out shutdown and secure equipment</p> <p>4.2 Monitor wear on drill stem, particularly threads</p> <p>4.3 Dress damaged threads or replace drill stem as required</p> <p>4.4 Check all equipment and hoses</p> <p>4.5 Monitor wear on drill heads and reamers and take required action</p> <p>4.6 Clean all equipment on completion of bore, ensuring environmental controls are followed</p> <p>4.7 Rotate drill stems in stack</p>

	4.8	Ensure drill fluid is contained or disposed of appropriately
	4.9	Ensure housekeeping activities are completed
	4.10	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

RIINHB310A Conduct surface directional drilling

Links

Companion Volume implementation guides are found in VETNet -

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