



Australian Government

RIINHB309E Conduct guided boring

Release: 1

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Modification History

Release	Comment
1	This unit replaces RIINHB309D Conduct guided boring. Civil construction added to application and unit sector. Mapping table added.

Application

This unit describes a participant's skills and knowledge required to conduct guided boring in the drilling and civil construction sectors.

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

Civil construction

Drilling

Elements and Performance Criteria

1. Plan and prepare for guided boring	<p>1.1 Access, interpret and apply guided boring 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 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency</p> <p>1.6 Communicate and coordinate activities with others throughout the work activity</p>
2. Bore pilot hole	<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 Fit locating device to drill head and attach drill head to drill</p>

	<p>stem</p> <p>2.4 Align drilling head with survey tool and survey control system</p> <p>2.5 Drill pilot hole according to design alignment</p> <p>2.6 Monitor drill path ensuring pilot hole meets conformance envelope and dogleg severity is within limits</p> <p>2.7 Add drill stem sections as required</p> <p>2.8 Steer, and where required, zone steer drill head to achieve required pitch and direction</p> <p>2.9 Monitor and interpret all gauge/dial readings</p> <p>2.10 Monitor and interpret drill fluid return and drill spoil</p> <p>2.11 Monitor and interpret drill head position and pitch</p> <p>2.12 Maintain communication with all relevant personnel</p> <p>2.13 Maintain drill log and reports as required</p>
3. Complete back reaming, and product pull back	<p>3.1 Lock out machine</p> <p>3.2 Remove drill head</p> <p>3.3 Check free rotation of swivel</p> <p>3.4 Connect appropriate back reamer, swivel and product</p> <p>3.5 Locate product feed to prevent damage and within breakover limitations</p> <p>3.6 Check all safety precautions are in place and restart machine</p> <p>3.7 Back reaming/pre-ream, and install product, removing drill stem sections</p> <p>3.8 Monitor and interpret all gauge/dial readings</p> <p>3.9 Monitor and interpret drill fluid flow from both ends of hole</p> <p>3.10 Monitor product feed</p> <p>3.11 Continually monitor hazards and risks, and ensure safety of self, other personnel, plant and equipment</p> <p>3.12 Take required actions to achieve satisfactory product installation as required</p> <p>3.13 Maintain drill log and reports as required</p>
4. Respond to problems	<p>4.1 Identify possible problems in equipment or process</p> <p>4.2 Determine problems needing action</p> <p>4.3 Determine possible fault causes</p> <p>4.4 Rectify problem using appropriate solution within area of responsibility</p>

	<p>4.5 Follow through items initiated until final resolution has occurred</p> <p>4.6 Report problems outside area of responsibility to designated person</p>
5. Complete equipment maintenance and housekeeping	<p>5.1 Carry out shutdown and secure equipment</p> <p>5.2 Monitor wear on drill stem, particularly threads</p> <p>5.3 Dress damaged threads or replace drill stem as required</p> <p>5.4 Check all equipment and hoses</p> <p>5.5 Monitor wear on drill heads and reamers and take required action</p> <p>5.6 Clean all equipment upon completion of bore, ensuring environmental controls are followed</p> <p>5.7 Rotate drill stems in stack</p> <p>5.8 Ensure drill fluid is appropriately contained/disposed of</p> <p>5.9 Ensure maintenance schedules are followed</p> <p>5.10 Ensure housekeeping activities are completed</p> <p>5.11 Process records</p>

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

Code and title current version	Code and title previous version	Comments	Equivalence status
RIINHB309E Conduct guided boring	RIINHB309D Conduct guided boring	Application and unit sector amended to include Civil Construction.	Equivalent

Links

Companion Volume implementation guides are found in VETNet -

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