



Australian Government

RIINHB323D Conduct horizontal directional drilling

Release: 2

RIINHB323D Conduct horizontal directional drilling

Modification History

Release	Comment
1	This unit replaces RIINHB323A Conduct horizontal 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 horizontal directional drilling in Civil construction and Drilling.

This unit is appropriate for those working in driller roles.

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

Unit Sector

Civil construction

Drilling

Elements and Performance Criteria

1. Plan and prepare for horizontal directional drilling	1.1 Access, interpret and apply horizontal directional 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 1.5 Communicate and coordinate activities with others throughout the work activity 1.6 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
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2. Bore pilot hole	2.1 Carry out pre-start and start up procedures 2.2 Identify, select and apply rig operational controls 2.3 Select appropriate cutting tool and drilling rig/components 2.4 Fit locating device to drill head and attach drill head to drill stem 2.5 Align drilling head with survey tool and survey control system 2.6 Drill pilot hole according to design alignment 2.7 Monitor drill path ensuring pilot hole meets conformance envelope and dogleg severity is within limits 2.8 Add drill stem sections as required 2.9 Steer drill head to achieve required pitch and direction 2.10 Monitor and interpret all gauge/dial readings 2.11 Monitor and interpret drill fluid return and drill spoil 2.12 Monitor and interpret drill head position and pitch 2.13 Continually monitor hazards and risk, and ensure safety of self, other personnel, plant and equipment 2.14 Maintain drill log and reports as required
3. Complete equipment maintenance and housekeeping	3.1 Carry out shutdown and secure equipment 3.2 Monitor wear on drill stem, particularly threads 3.3 Carry out procedures to maintain down hole equipment 3.4 Dress damaged threads or replace drill stem as required 3.5 Check all equipment and hoses 3.6 Monitor wear on drill heads and take required action 3.7 Clean all equipment on completion of bore, ensuring environmental controls are followed 3.8 Ensure drill fluid is appropriately contained/disposed of 3.9 Ensure housekeeping activities are completed 3.10 Process records
4. Respond to problems	4.1 Identify possible problems in equipment or process 4.2 Determine problems needing action 4.3 Determine possible fault causes 4.4 Rectify problem using appropriate solution within area of responsibility 4.5 Follow through items initiated until final resolution has

	occurred
	4.6 Report problems outside area of responsibility to designated person

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

RIINHB323A Conduct horizontal directional drilling

Links

Companion Volume implementation guides are found in VETNet -

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