



**Australian Government**

# **RIINHB330 Conduct down-hole hammer drilling**

**Release: 1**

## RIINHB330 Conduct down-hole hammer drilling

### 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 a participant's skills and knowledge required to conduct down-hole hammer drilling in Drilling.

This unit is appropriate for those working in operational roles for down-hole hammer drilling.

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 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 down-hole hammer drilling	1.1 Access, interpret and apply drilling documentation and ensure the work activity is compliant 1.2 Obtain, confirm, clarify, confirm and apply work instructions 1.3 Identify, manage and report verbally or in writing all potential hazards and risks 1.4 Resolve coordination requirements with others prior to commencing and during work activities 1.5 Select and wear correct personal protective equipment, tools and equipment to carry out tasks, check for serviceability and rectify or report any faults 1.6 Check restraining devices on all pressure hoses 1.7 Fit/replace restraining devices on pressure hoses 1.8 Raise alarm/report as required

ELEMENT	PERFORMANCE CRITERIA
2. Operate down hole hammer drill	2.1 Select appropriate rod type, thread form and drill string components for job 2.2 Measure and select appropriate bit for the job 2.3 Correctly collar hole 2.4 Use rod handling equipment safely and correctly 2.5 Add/break out and remove drill rods/pipes and down hole equipment 2.6 Weight/feed/rotate drill at right rate for optimum penetration 2.7 Adjust air pressure to achieve required hole clearance 2.8 Measure line string and calculate depth of hole
3. Use drilling fluids	3.1 Identify hole conditions, assess requirements of dust control fluids 3.2 Select suitable ingredients/fluids 3.3 Prepare/monitor the preparation of required fluids 3.4 Use dust control fluids to achieve required result
4. Maintain equipment	4.1 Monitor equipment wear 4.2 Check all equipment and hoses 4.3 Disassemble, inspect and reassemble down hole hammers 4.4 Replace/adjust and report damaged/worn parts 4.5 Undertake bit sharpening
5. Respond to problems	5.1 Monitor operation and chips/sample/air return 5.2 Identify possible problems in equipment or process 5.3 Clear blockages safely 5.4 Determine other problems and maintenance tasks needing action 5.5 Determine possible fault causes 5.6 Rectify problem using appropriate solution within area of responsibility 5.7 Follow through items initiated until final resolution has occurred 5.8 Verbally or in writing 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

Supersedes and is equivalent to RIIBHD305D Conduct down-hole hammer drilling.

## **Links**

Companion Volume implementation guides is found on VETNet -

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