



**Australian Government**

# **RIINHB208E Assist diamond core drilling**

**Release: 1**

## RIINHB208E Assist diamond core 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 the skills and knowledge required to assist diamond core drilling. It prepares individuals to support the core drilling process, handle core samples, mix drilling fluids and carry out basic maintenance of tools and equipment.

It applies to those working in assistant driller roles. They generally work under supervision to undertake a prescribed range of functions involving known routines and procedures.

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

### 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 to assist with diamond core drilling	1.1 Obtain, read and confirm work requirements 1.2 Access, interpret and apply documentation required to assist diamond core drilling and confirm work activity is compliant 1.3 Identify and minimise environmental issues and potential hazards, and assess and address risks within scope of own role and according to workplace procedures 1.4 Select and wear personal protective equipment required for work activity 1.5 Obtain and interpret emergency procedures and identify steps in case of fire, accident and other emergencies 1.6 Communicate with other personnel on site as required and confirm briefings and handover details are communicated and

<b>ELEMENT</b>	<b>PERFORMANCE CRITERIA</b>
	<p>received</p> <p>1.7 Load, unload, move, handle and store core drilling equipment and all associated tools, sampling devices and connecting equipment</p> <p>1.8 Set up and stabilise racks</p>
2. Support the core drilling process	<p>2.1 Assemble core barrel components</p> <p>2.2 Prepare drill string in readiness for tripping and drilling</p> <p>2.3 Add and remove drill rods and core inner tubes</p> <p>2.4 Inspect inner tube and core barrel regularly and replace worn and damaged components as required</p> <p>2.5 Monitor hazards and risks and confirm safety of self, other personnel, plant and equipment</p> <p>2.6 Use rod and casing handling equipment</p> <p>2.7 Store and handle diamond tools according to workplace procedures</p>
3. Handle core samples	<p>3.1 Dismantle inner tube for recovery of core samples</p> <p>3.2 Take necessary safety precautions when handling potentially contaminated samples</p> <p>3.3 Remove core samples from inner tube and place in core trays in required sequence</p> <p>3.4 Record information on core marker blocks and core box</p> <p>3.5 Take precautions and confirm no surface contamination of cores and delicate cores are preserved</p> <p>3.6 Stack core boxes ready for storage and transportation</p> <p>3.7 Clean and lubricate inner tube components and re-assemble in preparation for the next run</p>
4. Mix, store and test drilling fluids	<p>4.1 Check labels and read and interpret safety information and hazard codes</p> <p>4.2 Apply required mixing procedure for the drilling fluid</p> <p>4.3 Store drilling mud components and additives according to workplace procedures</p> <p>4.4 Perform basic tests on drilling fluids and record and report the results</p>
5. Carry out basic maintenance of tools and equipment	<p>5.1 Perform inspection and checks on serviceability of core barrel components</p> <p>5.2 Perform inspections and routine checks on ancillary equipment</p> <p>5.3 Perform inspections and basic maintenance on rod handling equipment</p> <p>5.4 Fit restraining devices to hoses</p>

## Foundation Skills

*This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.*

<b>SKILL</b>	<b>DESCRIPTION</b>
Oral Communication	<ul style="list-style-type: none"><li>• Listens to short, explicit instructions for work procedures and asks questions to clarify and confirm</li></ul>
Writing	<ul style="list-style-type: none"><li>• Produces and completes workplace reports using appropriate vocabulary, grammatical structures and conventions</li></ul>
Self-management	<ul style="list-style-type: none"><li>• Monitors and minimises own exposure to worksite hazards during activities</li></ul>

## Unit Mapping Information

Supersedes and is equivalent to RIINHB208D Assist diamond core drilling.

## Links

Companion Volume implementation guides is found on VETNet -

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