



Australian Government

RIINHB221 Assist rotary air drilling

Release: 1

RIINHB221 Assist rotary air 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 with air drilling in the resources and infrastructure industries. It prepares individuals to support the rotary air drilling process, use restraining devices, mix drilling fluids and carry out basic maintenance of tools and equipment.

It applies to those working in assistant roles for rotary air drilling including RAB, blade, roller bit, PCD and conventional hammer drilling. This unit does not apply to reverse circulation (RC) drilling. They generally work under supervision to undertake a prescribed range of functions involving known routines and procedures and take some responsibility for the quality of work outcomes.

Licensing, legislative and certification requirements that apply to this unit can vary between states, territories, and Industry sectors. Users must check requirements with relevant body before applying 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 assisting with air drilling	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply assist with rotary air drilling documentation 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

ELEMENT	PERFORMANCE CRITERIA
	work activities 1.5 Communicate with other personnel at site according to work requirements and confirm briefings and handover details are communicated and received 1.6 Load, unload and move tools and equipment following required manual handling procedures 1.7 Obtain and interpret emergency procedures and identify steps required in case of fires, accidents and other emergencies
2. Support the rotary air drilling process	2.1 Fit and remove and measure bits and down-hole tools to/from the drill string 2.2 Prepare drill string in readiness for tripping and drilling 2.3 Identify worn drill bits and report as required according to workplace procedures 2.4 Add and remove drill rod to and from the drill string 2.5 Inspect and maintain drill rod, bits, threads and other required down-hole equipment 2.6 Assist with conducting pre-start equipment checks prior to use 2.7 Use rod and casing handling equipment 2.8 Assist with casing installation 2.9 Check restraining devices to pressure and delivery hoses and rectify or report identified faults if required
3. Mix drilling fluids for rotary air drilling	3.1 Check labels and read and interpret safety information/ hazard codes 3.2 Mix the drilling fluid according to work requirements 3.3 Store drilling fluid components and additives
4. Carry out basic maintenance of tools and equipment	4.1 Perform inspections and routine checks on ancillary equipment including air compressor and injection pump 4.2 Perform inspections and basic maintenance of rod handling equipment 4.3 Complete housekeeping activities according to workplace procedures 4.4 Process records according to workplace procedures

Foundation Skills

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

SKILL	DESCRIPTION
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SKILL	DESCRIPTION
Reading	Identifies and interprets information from workplace procedures, documentation and regulations
Self-management	Monitors and minimises own exposure to worksite hazards during activities

Unit Mapping Information

New unit

Links

Companion Volume implementation guides is found on VETNet -

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