



Australian Government

Assessment Requirements for RIIINHB219D Assist with air drilling

Release: 2

Assessment Requirements for RIINHB219D Assist with air drilling

Modification History

| Release | Comment |
|---------|---|
| 1 | This unit replaces RIINHB219A Assist with air drilling. |
| 2 | Editorial corrections. |

Performance Evidence

Evidence is required to be collected that demonstrates a candidate's competency in this unit. Evidence must be relevant to the roles within this sector's work operations and satisfy all of the requirements of the performance criteria of this unit and include evidence that the candidate:

- locates and applies relevant documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient assisting with air drilling including:
 - operating ancillary equipment
 - applying basic maintenance and servicing of auxiliary equipment
 - identifying and measuring bits, shrouds and related components
 - identifying thread types in use
 - applying refuelling procedures for vehicles, drill rigs and ancillary equipment
 - identifying and applying correct lubricants
 - applying correct handling of samples
 - carrying out housekeeping
 - disassemble, inspect and reassemble DTH hammers
 - install restraining devices to pressure and delivery hoses
 - inspection and replacement of inner tubes and sealing devices in RC pipe
 - driving vehicles
 - complying with basic vehicles cleaning procedures
- works effectively with others to undertake and complete the air drilling tasks that meets all of the required outcomes including:
 - complying with written and verbal reporting requirements and procedures
 - communicating clearly and concisely with others to receive and clarify work instructions
 - communicating clearly and concisely with others to resolve coordination requirements prior to commencing and during work activities
- demonstrates consistent timely completion of assisting with air drilling tasks that safely, effectively and efficiently meet all of the required outcomes on a minimum of one (1) occasion including:
 - fitting/removing and measuring bits and down-hole tools to/from the drill string
 - preparing drill string in readiness for tripping and drilling
 - sharpening drill bits
 - adding/removing drill rod to and from the drill string
 - inspecting and maintaining drill pipe, bits, threads and other down-hole equipment
 - using pipe and casing handling equipment
 - installing and sealing casing
 - using, installing and maintaining stuffing boxes and collar T pieces
 - obtaining uncontaminated samples using appropriate sampling methods
 - mix drilling fluids
 - fitting restraining devices to pressure and delivery hoses

Knowledge Evidence

The candidate must demonstrate knowledge of the following when assisting with air drilling:

- applying safe work practices and identifying and reporting all potential hazards, risks and environmental issues
- identifying the care of samples including storage and transport
- using safety data sheets (SDS)
- complying with the basic operation of compressors and the need for cleanliness when carrying out compressor maintenance
- identifying the critical need to match threads with threads on tubular components
- preparing for drilling operational requirements and procedures
- complying with the theory behind sharpening bits
- complying with the monitoring of sample quality to restrict contamination
- identifying the importance of the correct measurement of bits and other related components
- understanding the methods for clearing blockages in air or rotary holes
- understanding the methods of clearing blocked sample and delivery hoses
- complying with the requirement of restraining devices on all high pressure and delivery hoses
- identifying the potential hazards with the operation of rod handling devices
- being prepared for fire/accident/emergency

Assessment Conditions

- An assessor of this unit must satisfy the requirements of the NVR/AQTF or their successors; and Industry regulations for certification and licensing; and,
- this unit must be assessed in the context of this sector's work environment; and,
- this unit must be assessed using Resources and Infrastructure Industry sector specific policies, procedures, processes and operational manuals; and,
- an assessor must demonstrate the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and through five (5) years of work in the Industry sector; and,
- where a co-assessment or partnership arrangement exists between a qualified assessor and an Industry technical expert, the Industry technical expert can hold the unit being assessed, and/or demonstrate equivalency of skills and knowledge at the unit level. An Industry technical expert must also demonstrate a minimum of three (3) years of continuous work in the Industry sector, with the preceding one (1) year in the unit they are co-assessing.

Links

SkillsDMC RII Companion Volumes - <http://www.skillsdmc.com.au/>