

Assessment Requirements for RIINHB330 Conduct down-hole hammer drilling

Release: 1

Assessment Requirements for RIINHB330 Conduct down-hole hammer drilling

Modification History

Release	Comments
	This version first released with RII Resources and Infrastructure Industry Training Package Version 5.0.

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 legislation, documentation, policies and procedures
- works effectively with others to undertake and complete conducting of down-hole hammer drilling that meets all of the required outcomes including:
 - uses a range of communication techniques and strategies to communicate and coordinate information and activity to other
 - communicates the hazards of cuttings in the return air stream to all crew members
- demonstrates completion of conducting down-hole hammer drilling that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - correctly use the various rod/pipe handling equipment
 - correctly and competently add/remove rods/pipe from the string
 - correctly applies rotation speed and weight on the bit to maintain optimum performance
 - correctly measures line string components and calculate hole depth
 - correctly collars holes
 - ensure that samples are monitored for sample quality, correctly collected and handled
 - ensure that all string components are correctly maintained
 - disassembles, describes the function of components, inspect components, replace unserviceable parts and reassemble a DTH hammer
 - · ensures that drill pipe is inspected regularly and wear rates monitored
 - ensure that threads are inspected and maintained
 - ensuring that bit sharpening equipment, used to sharpen TC bits are used correctly and safely and that bits are sharpened to correct tolerances

Approved Page 2 of 4

Knowledge Evidence

The candidate must demonstrate knowledge of conducting down-hole hammer drilling through:

- the critical need to match like threads with like threads on all tubular components and make up torque requirements
- the parameters relating to wear of drill pipe and integrity of threads
- the function of hole collaring
- the methods required to limit the contamination of samples
- the theory behind TC bit sharpening
- correct bit selection for different types of drilling and different ground conditions
- identifying problems related to inaccurate measurement of bits and other related components
- the importance of monitoring sample quantity
- the role that blockages play in affecting sample quality
- methods commonly used to clear down hole blockages in air drilled holes and the hazards associated with clearing blockages
- methods used to clear a blockage in a sample delivery hose and the hazards associated with clearing blockages
- the critical need for restraining devices to be fitted to all pressure delivery hoses and sample delivery hoses, the devices available and their methods of attachment
- dangers of drilled samples being returned to the surface at high velocity in air drilling operations and the parameters involved
- the importance of checking gauges and monitoring pressures, flow rates and temperatures.

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 in compliance with relevant legislation/regulation and using
 policies, procedures, processes and operational manuals directly related to the industry
 sector for which it is being assessed; and,
- assessment may be conducted in conjunction with the assessment of other Units of Competency; and,
- assessment must confirm consistent performance can be applied in a range of relevant workplace circumstances; and,
- assessors must demonstrate the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and through the minimum years of current* work experience specified below in an Industry sector relevant to the outcomes of the unit; or,

Approved Page 3 of 4

- where the assessor does not meet experience requirements a co-assessment or partnership arrangement must exist between the qualified assessor and an Industry subject matter expert. The Industry subject matter expert should hold the unit being assessed (or an equivalent unit) and/or demonstrate equivalence of skills and knowledge at the unit level. An Industry technical expert must also demonstrate skills and knowledge from the minimum years of current work experience specified below in the Industry sector, including time spent in roles related to the unit being assessed; and,
- assessor and Industry subject matter expert requirements differ depending on the Australian Qualifications Framework Level (AQF) of the qualification being assessed and/or Industry Sector as follows:

Industry sector	AQF** Level	Required as sessor or Industry subject matter expert experience
Orilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Construction	2	1 Year 2 Years
Drilling, Coal Mining and Extractive (Quarrying)	3-6	3 Years
Metalliferous Mining and Civil Construction	3-6	5 Years
Other sectors	Where this Unit is being assessed outside of the Resources and Infrastructure Sectors assessor and/or Industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no Industry standard is specified should comply with any relevant regulation.	

^{*}Assessors can demonstrate current work experience through employment within Industry in a role relevant to the outcomes of the Unit; or, for external assessors this can be demonstrated through exposure to Industry by conducting frequent site assessments across various locations.

Links

Companion Volume implementation guides is found on VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272

Approved Page 4 of 4

^{**}Where a unit is being delivered outside of a Qualification the first numeric character in the Unit code should be considered to indicate the AQF level