



Australian Government

Assessment Requirements for RIINHB308D Conduct wireline core drilling

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIINHB308A Conduct wireline core drilling
2	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

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 completion of wireline core drilling including:
 - conducting routine checks and basic maintenance
 - mixing and applying collar sealants
 - using collar casing equipment attachment techniques
 - conducting basic drilling fluid tests, viscosity and specific gravity
 - core handling and tray placement
- works effectively with others to undertake and complete wireline core drilling tasks that meet 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 completion of wireline core drilling that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - identifying and using different drill rod or casing types, thread forms and thread make up parameters
 - selecting appropriate drill bits and reamer shells

- adjusting inner tube length to ensure appropriate fluid flow around the core
- applying appropriate rotation speed, weight on the bit, drilling fluid flow rate and penetration rate applicable to the ground conditions
- measuring drill string components and calculating depth of hole
- installing casing and seal at the collar
- identifying hole conditions requiring the use of drilling fluid additives
- monitoring fluid and cuttings specific gravity and up hole velocity to ensure efficient hole clearing
- selecting the appropriate fluid pumping rate for the hole size
- assembling, maintaining and using survey and core orientation devices

Knowledge Evidence

The candidate must demonstrate knowledge in conducting wireline core drilling through:

- accessing, interpreting and applying the organisation and site requirements and procedures for:
 - work, health and safety
 - environmental issues
 - operating drill rig
 - housekeeping
- understanding the configuration requirements of various thread forms and make-up torque requirements
- understanding the function of hole collaring, use of casing and collar sealing techniques
- complying with methods required to produce uncontaminated samples
- understanding the impregnated bit stripping procedures
- understanding the bit selection for different types of drilling and different ground conditions
- understanding the measurement of bits and other related components
- understanding the critical dimensions of a core barrel if the barrel has to be drilled through to reduce hole size
- understanding the relationships between penetration rate and bit life
- understanding the role that core blockages play in affecting sample quality
- understanding the functions of drilling fluids and control procedures
- understanding the relationship between hole diameter, rod diameter, pump output and the specific gravity of formation cutting
- understanding the types of mud and water delivery pumps and their applications
- understanding the hazards associated with wireline operations and control measures required
- understanding the purpose of drill hole surveys and the functions of azimuth and dip readings and where it is applied

- understanding the core orientation and where it is applicable 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 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,
- 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 assessor or Industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Construction	1	1 Year
	2	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.
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*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.

**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

Links

Companion Volume implementation guides are found in VETNet -

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