



Australian Government

RIINHB217D Assist horizontal direction drilling

Release: 3

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Modification History

Release	Comment
1	This unit replaces RIINHB217A Assist horizontal direction drilling.
2	Inserted missing Knowledge Evidence.
3	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.

Application

This unit describes a participant's skills and knowledge required to assist horizontal direction drilling in Drilling.

This unit is appropriate for those working in drillers assistant roles.

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and Industry sectors. Relevant information must be sourced prior to application of the unit.

Unit Sector

Drilling

Elements and Performance Criteria

1. Plan and prepare for assisting horizontal directional drilling operations	1.1 Access, interpret and apply assist horizontal directional drilling documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify and address potential risks, hazards and environmental issues and implement control measures 1.4 Select and wear personal protective equipment appropriate for work activities 1.5 Communicate and coordinate activities with others throughout the work activity 1.6 Load, unload and move tools and equipment
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	1.7 Identify safety precautions for handling potentially contaminated spoil 1.8 Assist in the use of locating equipment for locating underground utilities 1.9 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Support the horizontal directional drilling process	2.1 Fit/remove bits/reamers/stabilizers to/from the drill string 2.2 Lay out drill string in readiness for tripping/drilling 2.3 Add/remove drill pipe from the drill string 2.4 Inspect drill pipe, bits, threads and associated equipment for damage 2.5 Continually monitor hazards and risks, and ensure safety of self, other personnel, plant and equipment 2.6 Assist in the use of guidance or tracking equipment
3. Mix drilling fluids	3.1 Check labels and read and interpret safety information/hazard codes 3.2 Mix drilling fluid 3.3 Carry out storage of drilling mud components and additives 3.4 Perform basic tests on the fluid and record/report the results as required
4. Carry out basic maintenance of tools and equipment	4.1 Perform inspections and routine checks on ancillary equipment 4.2 Perform inspections and basic maintenance pipe handling equipment 4.3 Complete housekeeping activities 4.4 Process records

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIINHB217A Assist horizontal direction drilling

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for RIINHB217D Assist horizontal direction drilling

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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 assisting with horizontal directional drilling including:
 - applying safe manual handling practices
 - operating ancillary equipment
 - working wearing personal protective equipment
 - inspecting and monitoring equipment
 - carrying out operator maintenance
- works effectively with others to undertake and complete horizontal directional drilling 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 completion of assisting with horizontal directional drilling that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - fitting and removing bits/reamers/stabilizers to/from the drill string

- laying out drill string in readiness for tripping/drilling
- adding/removing drill pipe from the drill string
- inspecting drill pipe, bits, threads and associated equipment for damage
- assisting in the use of guidance or tracking equipment
- identification of and correct mixing of drill fluids

Knowledge Evidence

The candidate must demonstrate knowledge in assisting horizontal direction drilling through:

- applying the organisation and site requirements and procedures for:
 - work health and safety
 - environmental issues
 - handling drilling equipment
 - housekeeping
- reading, interpreting and complying with safety data sheets (SDS)
- 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.	

*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

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