



Australian Government

RIINHB210E Assist surface directional drilling

Release: 1

RIINHB210E Assist surface directional 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 surface directional drilling in coal mining and drilling. It prepares individuals to position, inspect and carry out basic maintenance of tools and equipment including drill rods, in-hole drilling components, hoses and ancillary equipment.

It applies to those working in assistant driller roles. They generally work under supervision to undertake a prescribed range of functions involving known routines and procedures.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Coal mining

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 to assist with surface directional drilling	1.1 Obtain, read and confirm work requirements 1.2 Access, interpret and apply surface directional 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 work activities 1.5 Communicate with other personnel on site as required and confirm briefings and handover details are communicated and

ELEMENT	PERFORMANCE CRITERIA
	received 1.6 Load, unload and move tools and equipment according to safety and job requirements 1.7 Obtain and interpret emergency procedures and identify steps in case of fire, accident and other emergencies
2. Support the surface directional drilling process	2.1 Position and number drill rods in readiness for drilling 2.2 Inspect in-hole drilling components for damage 2.3 Fit and remove in-hole drilling components to and from the drill string 2.4 Monitor hazards and risks, and confirm safety of self, other personnel, plant and equipment 2.5 Monitor operation for unplanned gas and water leakage and other environmental hazards
3. Carry out basic maintenance of tools and equipment	3.1 Monitor the drill rods for wear and damage, dress and grease threads 3.2 Rotate rods and replace as and when required 3.3 Perform inspections and routine checks on hoses and ancillary equipment and carry out remedial action 3.4 Confirm that drill fluids are contained and disposed of according to workplace procedures and environmental requirements

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
Oral Communication	Listens to short, explicit instructions for work procedures and asks questions to clarify and confirm
Reading	Identifies and interprets information from workplace procedures and documentation

Unit Mapping Information

Supersedes and is equivalent to RIINHB210D Assist surface directional drilling.

Links

Companion Volume implementation guides is found on VETNet -

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

Assessment Requirements for RIINHB210E Assist surface directional drilling

Modification History

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- assist surface directional drilling on at least two occasions, including:
 - positioning and numbering drill rods in readiness for drilling
 - inspect in-hole drilling components for damage
 - fitting and removing in-hole drilling components to and from drill string
 - checking drill rods for wear and damage
 - checking on hoses and ancillary equipment.

During the above, the candidate must:

- locate and apply documentation required to assist surface directional drilling
- implement the requirements, procedures and techniques for assisting with surface directional drilling, including:
 - operating ancillary equipment, including:
 - pumps
 - ventilation equipment
 - working wearing personal protective equipment
 - applying operational communication procedures
 - inspecting and monitoring equipment
 - applying basic maintenance of tools and equipment
 - complying with basic vehicle cleaning procedures
- work with others to assist surface directional drilling that meets required outcomes, including:
 - complying with reporting requirements and procedures
 - communicating with others to receive and clarify work instructions
 - communicating with others to meet coordination requirements prior to commencing and during work activities.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- key policies and procedures and established requirements for assisting surface directional drilling, including those for:
 - work health and safety
 - emergencies
 - environment practices
 - loading, unloading and handling drilling equipment
 - refuelling vehicles, drill rigs and ancillary equipment
 - inspecting and performing maintenance on tools and equipment
 - housekeeping
- reading, interpreting and complying with safety data sheets (SDS)
- equipment types and functions
- drilling team roles and objectives.

Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:
 - personal protective equipment
 - equipment required to assist surface directional drilling
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment; and,
- be assessed in compliance with relevant legislation/regulation and using policies, procedures and processes directly related to the industry sector for which it is being assessed; and,
- confirm consistent performance can be applied in a range of relevant workplace circumstances.

Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work environment* provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.

Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory regulatory standards as set out in the Standards for Registered Training Organisations (RTOs) 2015/Australian Quality Training Framework mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided

- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing the required level of RII training product knowledge
- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence outlined in this unit of competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	2	2 years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 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.	

*Guidance on simulated environments has been stipulated in the RII Companion Volume Implementation Guide located on VETNet.

**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 a minimum number of site assessments as determined by the relevant industry sector, across various locations.

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